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US ARMY ENVIRONMENTAL CENTER ABERDEEN PROVING GROUND MD 21010-5401

### REMEDIAL INVESTIGATION **BADGER ARMY AMMUNITION PLANT**

**BARABOO, WISCONSIN** 

THE OFFICE LANGE OF A

**FINAL** REMEDIAL INVESTIGATION REPORT APPENDIX **DATA ITEM A009** 

APPENDIX L **VOLUME 6 OF 7** 



CONTRACT DAAA15-91-D-0008

Unlimited Distribution Approved for Public Release

**UNITED STATES ARMY** TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND

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### REMEDIAL INVESTIGATION BADGER ARMY AMMUNITION PLANT

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### **APPENDICES**

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### APPENDIX L

### DATA QUALITY

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### Appendix L.1

### **BAAP Production Well No. 2 Water Quality Assessment**

BAAP Production Well No. 2 (BPW #2) was used as a source for drilling and decontamination water during the RI program. As such, the water from BPW #2 was analyzed three times during the RI program. A summary of detected analytes is presented in Table L-1; complete analytical results are presented in Appendix K.

CHCL2 was the only VOC detected, but is also present in laboratory blanks associated with analysis of BPW #2 samples, and is therefore not considered to be a contaminant present in groundwater from BPW #2. Metals concentrations are within ground background ranges (see Section 2.0) for all analytes with the exception of CU, CR, K, and MN (Table L-1). 1CU was detected only once (at a concentration of 29  $\mu$ g/g) and its presence is therefore suspect.

CR was detected at a concentration of  $4.66 \,\mu/\text{gL}$  in the 12/03/91 (Round One Groundwater) sampling event, and was not detected in the other two events. CR was detected in the majority of wells sampled during Round One (November/December 1991), and was detected infrequently in Round Two (April/May 1992).

K is present at two to three times background concentrations, and MN is at least three times greater than background concentrations. All other analytes are generally within the range of concentrations detected in the background wells. The elevated concentrations of metals in BPW #2 may be a result of the water being drawn from bedrock. Background wells S1130 and S1131, screened in bedrock, exhibit higher concentrations of some metals than background wells screened in the overburden aquifer.

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TABLE L-1
SUMMARY OF GROUNDWATER CHEMICAL DATABADGER PRODUCTION WELL #2
REMEDIAL INVESTIGATION
BADGER ARMY AMMUNITION PLANT

Site ID:		BPW#2		BPW#2		BPW#2	
Sample Type:		WELL		WELL		WELL	
CNITS		CGL		T9A		UGL	
DATE SAMPLED:		09/19/91		12/03/91		04/08/92	
ROUND:		ONE		TWO		THREE	
VOC	CH2CL2	7.55	æ	4.9	ھ	6.18	æ
Metab	æ	41.0	×	404	×	41.9	×
	ჯ	45000		42000		47000	
	క	ı		4.66		ı	
	5	29.0		ı		1	
	프	317		357		317	
	¥	2370	H	2400	۲	2400	۲
	WG	24000		25000		26000	
	X X	26.3		23.6		24.9	
	Ϋ́Z	18000	۲	ı		11000	L
	ß	ı		74.3		ı	
Anion	JO	11000		0086		10000	
	NO3	65.3					
	Š	21000		16000		17000	
Indicator	ALK	00061		182000		20000	
parameter	HARD	220000		210000		216000	
	SQI	81200		228000		240000	
	2	32.0					

Footnotes and flagging codes are presented at the end of this table.

## TABLE L-I SUMMARY OF GROUNDWATER CHEMICAL DATABACKGROUND AREAS REMEDIAL INVESTIGATION BADGER ARMY AMMUNITION PLANT

### Notes and flagging codes:

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Ξ

(3)		Specific conductivity, umbos/cm
UGL		Micrograms per liter (parts per billion)
voc		Volatile organic compounds
SVOCs		Semi-volatile organic compounds
Blank cell		No analysis performed
		Less than the Certified Reporting Limit (CRL)
<b>GT</b>		Greater than the reported value
<b></b>	•	Analyte found in blank as well as sample
ט		Reported results affected by interferences or high background
<b>-</b>	•	Results less than CRL but greater than Criteria of Detection
æ		Analyte required for reporting purposes but not currently certified
S		Results based on internal standard
j.	•	Uncertified analyte in a certified method
×		Analyte recovery outside of certified range but within acceptable limits

TDOC:026

### Appendix L.2

**USATHAMA-Certified Analytical Methods** 

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	Hold_ime2 Сеп. Method Name Level	0 CI METALS/SOIL/CVAA	i)	<del></del>		CI	0 CI METALS/SOIL/AA	_	<u>.</u>	IJ	5	5	0 CI METALS/SOIL/Gil·AA	0 CI METALS/SOL/JCP	0 CI METALS/SOIL/ACP	0 C1 MELALS/SOIL/ICP	0 CI METALS/SOIL/ICP			0 CI METALS/SOILACP	C1	CI			CI CI	CI		5	5		IJ	5	5	0 CI METALS/SOIL/ICP		0 CI IIEXCR/SOIL/SPEC	O CI INCOCANDCISCOU PROTINICON		0 C1 ANIONS/SOIL/IC		5		0 CI ANIONS/SOIL/IC
	Hold_time1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	6		0	0	0	0	0
	Hold_time	28	081	280	180	180	081	180	180	180	180	180	2	- 80	180	081	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	2	081	2			۶	07	28	28	28	28	28
<b>\</b>	Upper	0.5	2	250	22	01	25	80	9.4	2	2	7		450	300	8	20	2.5	001	12.5	20	50	50	20	250	2	<b>\$</b>	S	30	750	S	ŝ	ŝ	2		Š	٢	?	8	200	(X)Z	2	8
,	Reporting Limit	0.0259	1.75	8.09	6.26	1.11	9.24	4.99	0.0146	0.219	0.3191	0.0678	0.0431	15	24	7.4	2.61	0.078	12.8	0.424	1.42	3.9	1.95	1.89	3.29	0.839	1.49	2.46	3.42	50.7	5.48	16.6	1.34	7.96		2	1630	1/00	8.83	39.6	19.2	3.36	3.16
	compound Name	MERCURY	SILVER	COBALT	CHROMIUM	СОРРЕК	IRON	MAGNESIUM	SILVER	ARSENIC	LEAD	SELENIUM	INACLIUM	ALUMINUM	ARSENIC	HORON	BARIUM	BERYLLIUM	CALCIUM	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MAGNESIUM	MANGANESE	MOLYBDENUM	NICKEL	ANTIMONY	SELENIUM	TELLURIUM	THALLIUM	VANADIUM	ZINC		HEXAVALENT CHROMIUM	Silogijo	THOSTING	BROMIDE	CHLORIDE	FILUORIDE	NIRATE	NITRITE
)	Method Analyte	911	\   	8	3	CO	FE	MG	۷C	٧S	2	SE	2	VT.	VS	=	ĭ <u>ĕ</u>	318	CA	CD	0.0	CR	CO	: <u>:</u>	NG	N	<u>Ş</u>	Z	SIS	SE	出	=	>	X.		CRITEX	į	7	38	<u>:</u>	1	1103	NO2
	Metho	1803	900	8	S S	1000	7006	¥) O	103	1013	<u> </u>	<u>=</u>	Sign	1515	1515	1515	1515	1515	1515	1515	1515	1515	1515	15.15	3515	1215	1815	1515	1515	1515	1515	1515	1515	1515		3,7	7	2	K.101	X	X IO	K.103	K 10:

## Arthur D. Little Certified USATHAMA Methods

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Method Name	ANIONS/SOIL/IC		INORGANIC/SOIL/SPECT		HALOCARIBONS/SOIL ACCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL ACCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL ACCON	HALOCARBONS/SOIL/GCCON	HALOCARIBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL ACCON	HALOCARBONS/SOIL/OCCON	HALOCARIBONS/SOIL ACCON	HALOCARBONS/SOIL/GCCON	HALOCARRONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON	HALOCARBONS/SOIL/GCCON		13 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	PESTICIDES/SOIL/OCEC	PESTICIDES/SOIL/OCEC	PESTICIDES/SOIL/GCEC	PESTICIDES/SOIL/GCEC	PESTICIDES/SOIL/GCEC	PESTICIDES/SOIL/GCEC	PESTICIDES/SOIL/GCEC	PESTICIDES/SOIL/GCEC	PESTICIDES/SOIL/GCEC	DESTICATION STORY	DESTICIDES/SOIL (OSES)	PESTICIDES/SOIL/GCFC	DH201100/830H21844	PUSTICIDES/SOIL/GCLC	PESTICIDES/SOIL/GCEC
Cen.	13.37					1	1		_		_							_	_		_		_	_			1	1	1					_	_	_	~	3	3	~	+	-	_	~	_	_
Hold_time2	0	+-	1D 0	$\overline{}$	-	0 CI	0 CI	10 0	13 0	10 0	0 0	0	-	+-	0	0	10 0	0 CI	0 01	0 61	0	0	10 0	1) 0	12 0 CI	0 CI	0 CI	12 0 CI	12 0 C1	+	+		-	-	_	<del>=</del>	-+	_	40 113	40 113	40 118	40 118	40 118	40 113	40 113	40 118
Hold_time1	0		0		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1,	+	1	7	7	7	7	7	7	7	7	7	7	7	7	7
Hold_time	28		14		4	7	14	141	14	77	14	14	14	4	7	4	14	14	14	14	14	14	14	4	14	14	14	14	14	1	1	o		0	0	0	0	0	U	0	0	0	0	0	0	0
Upper	2005		100		1.20H	0.2	0.396	861.0	0.402	0.397	0.2	0.204	0.402	0.397	0.4	0.4	-	10.1	0.204	1.59	9.0	0.81	0.202	0.398	0.4	0.4	0.204	0.1	0.199		1	3		5	5	0.05	0	0.05	0.01	0.1	=	0.025	0.5	0.5	0.1	0.1
Reporting	14.4		5		0.0112	0.00576	0.0195	0.00853	0.0123	0.0187	0.00745	0.00556	0.0281	0.0206	0 0213	0.0171	0.0469	0.0487	0.0128	0.122	0.0373	0.0945	0.0143	0.0254	0.0385	0.019	0.0065	0.00783	0.0208			0.00000	0.00184	0.00807	0.0049	0.00519	0.00754	0.0038	0.00115	0.00355	0.00793	0.00465	0.0704	0.0538	0.0101	0.00399
lyte Compound Name	SULFATE		CYANIDE	+	┪	-	H	LE I, I-DICHLOROETHANE	ŀ	LB 1,2-DICHLOROBENZENE	⊢	LP 1,2-DICHLOROPROPANE	╀	₩	₩	CP CIS-1,3-DICHLOROPROPYLENE	ICL   CHLOROETHENE / VINYL CHLORIDE	⊢	一	21.2 METHYLENE CHLORIDE	$\vdash$	┢	<del>-</del>	HIS CHLOROBENZENE	_		1,1,2,2-TETRACHLOROETHANE	E TETRACIII.OROETHYLENE/TETRACIII.OROETHENE	.E TRICHLOROETHYLENE/TRICHLOROETHENE		+	+	_ !_	z	7	KN DIELDRIN		DAN GAMMA-CIII.ORDANF	HEPTACHLOR	I. HEPTACHLOR EPOXIDE	ISODRIN	LINDANE / GAMA-BENZENEHEXACHLORIDE	╁	PCB 1260	<b>—</b>	2.2-BIS (PARA-CHLOROPHENYL)-1,1-DICHLOROE
-l Analyte	SO1	1	CYN		7	112TCE	HIXE	INDOLE	12DCE	12DCLB	IZIXCLE	12IXCLP	13DCLB	<del>  -</del>	•	1	C2113CL	C2115CL	5155	-	CIBCL	CHBR	┼-	C1.C6115	DBRCLN	LIJICP	ICLEA	ICLEE	IRCI.E			+	Ť	+	<del></del>	DI.DRN		GCLDAN	HICI.	HIC:	SOUR	-	17.11016	14.13260		_
Method	K.104		K Y 07		3	 	1.G05	1005	1003	1,005	LG05	1.00s	S	500	1.005	1.00	1.005	1.002	1.G05	1.005	ŝ	593	1.00	1.00	1 0:05	1.005	1.005	1,005	1.G05								Ξ	1.113	=======================================	Ξ	=	Ξ	E	Ξ	Ξ	

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Hold_time2 Cert. Method Name	40 C1   PHENOI S/SOH /GCEID	5	CI		40 C1 PHENOLS/SOIL/GCFID	CI	40 C1 PHENOLS/SOIL/GCFID	40 C1 PHENOLS/SOIL/GCFID	CI CI	CI		40 1B ORGANOPHOSPHOR/SOIL/GCFP	40 1B ORGANOPHOSPHOR/SOIL/GCLP		40 C1 COROANOSCILTURASSOIL/OCT	-		7	3 5		40 C.1 ORGANOSULTURS/SOIL/GCFP	40 IA ORGANICS/SOIL/GCMS	<u> </u>	T	¥	<u> </u>		<u> </u>	<u>×</u>		40 1A ORGANICS/SOIL/GCNS	<u>۷</u>	<u> </u>	١٧	٧١	40 IA ORGANICS/SOIL/GCNIS	40 1A ORGANICS/SOIL/OCMS	40 1A ORGANICS/SOIL/GCAIS	14		<u> </u>	¥	<b>&lt;</b>	<b>&lt;</b>	40 IA ORGANICS/SOIL/GCNIS
Hold_time1	7	7	7	7	7	7	7	7	7	7		7	7	-	-	,	-	-	1	-		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7.1
Hold_time	0		0	0	0	0	_	0	0	0		0		ľ	,		C	3 6	3 6	, ,	2	0	0	0	0	0	0	0	0	0	0	0	a	0	3	С	0	0	0	0	С	С	a	0	6
Upper	L	0.467	0.461	0.789	22.7	0.622	4.54	0.752	10.5	0.167		9.84	0	×	1	× 1×	25	=	264	ř	3	3.3	3.3	3.3	3.3	3.3	3.3	67	6.7	33	6.7	33	33	33	3	33	33	3.3	33	6.7	6.7	3.3	3.3	33	6.7
Reporting	0.0652	0.164	0.0248	0.15	3.53	0.0393	0.723	0.0388	1.36	0.0173		1.97	1.34	27.6	196	4 48	5.13	0.588	161	7 18	4.10	0.29	0.29	0.33	0.26	0.33	0.32	0.39	0.53	0.32	0.46	0.29	0.41	0.46	0.54	0.33	0.39	0.3	0.38	0.36	0.36	0.24	0.8	0.45	0.26
- 1	-	-4	2-CILOROPIENOL	2-NITROPHENOL	4.9 DINITRO-Z-CRESOL/NIETHYL-4,6 DINITROPHI	4 CHECKO S CRESOL / 3-METHYL-4-CHLOROPHENC.	official operations	Tricillord Pilenol.S	_1_	ITHENOI,	MISOMODNI METHYL PHOSONICH 17	DISOFNOT LIMIT III L' PIOSPILONA II:	+	BENZOTHIAZOLE	4-CIILOROPHENYI METITYL SULFIDE	_	_	DITHIANE	1,4.0XATIIIANE	TIIIODIGLYCOL	╀	+	-+	+	4	4	-+	2,4-DINITROTOLUENE	2,6-DINITROTOLUENE	2-CIILORONAPIITIIALIENE	+			I. ACENAPITET LENE	+	+			-+-	-	-	-	CHRYGOLK FLUORANTHENE	LIEXACIII OBOBENZENI:	HEAACHIAMUBERZENE
	Z4DCLP	NJINONZ		NZ NZ	37000	ן קרני וויי	96			LING	Divid			21.0	CPMS	CPMISO	CPMSO2	DITH	OXAT	IDCCL	+-+	<del>-</del>	1241CI	+	+		T T T T	_	╅	_	+	ALUKN	VIVAL	ANAFI	ANI NA	מייינים	125	BAANIK	-	-	2010	18611117	200		٧.
Method	3	3				3   3								11.02	1102	1102	1.1.02	1.1.02	1.1.02	1.1.02			LNIS		<u>.</u>	-NIS		SIN.																N N	

# Arthur D. Little Certified USATIIAMA Methods

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Method Name	SINDER HUSSANDIA CONS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCNIS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCNIS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	<b>ORGANICS/SOIL/GCMS</b>	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/OCMS	ORGANICS/SOIL/GCNIS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/GCMS	ORGANICS/SOIL/CINS		VOLA FILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCNIS	VOLA HEES/SOH /CCMS	VOLATILES/SOIL/GCMS	VOLA ITLES/SOIL/GCNIS
			ORG	ORGA	ORGA	OKGA	ORGA	ORGA	ORGA	ONC	ORGA	ORGA	ORGA	ORGA	VSMO	ORGA	ORGA	ORGA	ORCA	ORG	ORCA	SEC	ORGA	OKGA	ORGA	ORGA	ORGA	ORGA	ORGA		VO.	VOI.A	VOI.A	VOI.A	VOI.A	VOI.A	VOI.A	VOLA	VOI.A	VOLA	VION	VOIV	VOI.A	VOI.A	VOI.A	V.IOV
	V 1 1	+	+-	<u>&lt;</u>	<u> </u>	<u> </u>	_		_			<		_		_	_	_	_	┝	_	<u>&lt;</u>	_	ΙV	14	17	١٧	۱۷	۱۷	-+	<b>≤</b>	-+	≤	۷_	<u>&lt;</u>	-	١٧	-	-	-	┿	_	_	<u>\</u>	<u> </u>	<u>v</u>
Hold_time2	040	04	64	40	9	9	40	3	40	9	40	9	40	40	40	04	07	40	8	40	CF	CF	40	40	40	40	40	40	40		C	0		0	С	С	0	0	0	0	0	0	0	С	C	0
Hold_time1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		0	0	0	0	О	С	0	С	О	0	0	0	O	0	0	0
Hold_time	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	С	0	0	0	0	0	0	0	0		14	14	=	14	4	14	7	41	14	77	14	14	14	7	14	1.4
Upper	13	33	6.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	33	6.7	3.3	3.3	3.3	6.7	3.3	6.7	6.7	3.3	3.3	3.3	6.7	3.3	3.3	3.3	3.3	6.7	3.3		05	05	0.2	0.2	0.2	0.2	0.2	0.2	02	0.2	0.2	02	0.2	0.5	0.2	0.2
Reporting	0.4	0.37	0.27	69.0	0.2	0.29	0.48	0.24	0.3	0.59	0.52	0.41	0.52	0.42	0.28	0.36	0.21	0.43	0.48	0.42	0.7	0.36	0.25	0.41	0.18	0.22	0.41	0.46	0 42		0.0042	0.02	0.019	0.0017	0.0027	0.002	0.0012	0.0031	0.0022	0.002	0.0013	60000	0.048	0.0033	0.015	0 027
te (Tettpound Name	HEXACIII OROGIII ANE	1	╌	O2 4-CIILOROPIIENYLMETIIYL SULFONE	-	$\vdash$	-	DITHIANE	-			Н	$\exists$	HEXACHLOROBUTADIENE	_	_	_	LINDANE/GAMA-BENZENEHEXACHLORIDE	Н	NAITIALENE	Н	A NITROSO DI-N-PROPYLAMINI:		R PHENANTHRENE	2,2-BIS (PARA-CHLOROPHENYL)-1,1-DICHLOROETH	-	_	-	PYRENE	+	-+	+	┪	-	1 1,2-DICHLOROETHANE-D4	긕	.ta   1,2-DICHLOROBENZENE	E 1,2-DICHLOROETHANE	P 1,2-DICIII,OROPROPANE	B 1.3-DICHLOROBENZENE	₩	B 1.4-DICHLOROBENZENE	Щ.		-	IL CHLOROETHANE
d Analyte	CLAET	_	CPMSO	CPMSO2	DBAHA	_	DEPD4	DEIII	DLDRN	DNOP	DNOPD4	ENDRN	I:ANT	HCBD	IIICI.	HICLE	ICUPYR	N.I.	MI.THN	'AV	NBDS	VINCIN	OXAT		PPDDD	PP1015	PPDDI	PRTIIN	PYR			112TCE	3CE	1 DCLE	12DCD4	120CE	12DCLB	12DCLE	12DCLP	13DCLB	13DCP	14DCLB	2CL.EVE	HRDCI.N		CZHSCI.
Method	LMIS	LMIS	1.1115	1.M15	1.M15	LMIS	LMIS	1.1115	LMIS	LMIS	LATIS	LMIS	LMIS	1.M15	1.M15	LMIS	1.0115	1.3115	I.MIS	LMIS	1.M15	1.M15	1.M15	LMIS	LMIS	INIS	LMIS	I.M15	1.M15		9	LM16	9 W.1	1.M16	1.M16	1.M16	1.M16	1.MI6	1.N15	LM16	1.M16	1.M16	1.MI6	1.N16	1.M16	1.1116

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Cent. Method Name	SWORTH PS/SOIL KICKE	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCNS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLA FILES/SOIL/GCMS	VOLATILES/SOIL KICKIS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILES/SOIL/GCMS	VOLATILIS/SOIL/GCNS	NIT-PHOSPHOR/SOIL/GCNP	NIT-PHOSPHOR/SOH/GCNP	NIT-PHOSPHOR/SOIL/GCNP	NIT-PHOSPHOR/SOIL/GCNP	NIT-PHOSPHOR/SOIL/GCNP	NIT-PHOSPHOR/SOIL/GCNP		NTTROSAMINES/SOIL/GCNP	NITROSAMINES/SOIL/GCNP	NITROSAMINES/SOIL/GCNP		AROMATICS/SOIL/GCPID	AROMATICS/SOIL/GC-PID	AROMATICS/SOIL/GC-PID		EXPLOSIVES/SOIL/AIPLC	EXPLOSIVES/SOIL/AIPLC	EXPLOSIVES/SOIL/IPLC	EXPLOSIVES/SOIL //IPLC	EXPLOSIVES/SOIL/AIPLC	EXPLOSIVES/SOIL AIPLC	EXPLOSIVES/SOILAIPI C	EXPLOSIVES/SOIL/IIPLC						
<u>د</u> د	<u> </u>	: ≤	≤	<	≤	≤	≤	<u> </u>	<u>&lt;</u>	<	≥	١٧	<u>×</u>	١٧	_<	۷۱	IJ	၁	10	IJ	IJ	IJ			IJ	Ü		ᅴ	히	히	핑	리	디	ᅴ	ᅴ	อ		디	ਹ	ᇹ	핑	ᅴ	리		
Hold_time2	G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	40	04	<b>⊕</b>	04	40		9	40	40		0	0	0	0	0	0	0	С	0		40	40	40	40	40	40	40	8
Hold_time1	[	0	0	0	С	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7		7	7	7		0	0	0	0	0	0	0	0	0		56	56	56	56	56	56	\$	\$
Hold time		=	=	14	77	14	7	14	2	1.4	71	14	14	14	14	14	0	0	0	0	0	0		0	0	0		4	14	41	14	14	14	14	14	14		0	0	С	0	0	С	0	0
Upper	0.0	0.2	0.2	0.5	0.2	0.7	0.2	0.2	0.2	0.2	0.7	0.05	0.2	0.2	0.2	0.2	23.1	01	2	101	2	22.6		5	1.98	10		0.397	0.402	0.408	0.398	0.398	033	0.399	0.5	0.5		2.07	5.2	9.94	10	2	30.1	으	20.7
Reporting	0.0020	0.0056	0.002	0.0057	0.017	810.0	0.0023	0.0028	0.014	0.0031	0.0033	0.0084	0.0084	9100.0	0.0019	0.0038	0.315	8100	8100	0.314	0.263	772.0		0.136	0.0569	0.197		0.0281	0.0268	0.0383	0.0202	0.0208	0.033\$	0.0247	0.00191	0.00729		0.352	0.304	0.931	0.744	0.83	1.59	0.755	1.04
Compound Name	I RENZENE	CARBON TETRACIILORIDI	-	METHYLENE CHLORIDE	CHLOROMETHANE	BROMOFORM	CHLOROFORM	CHLOROBENZENE	M DIBROMOCHLOROMETHANE	ETHYLBENZENE-D10	ETHYLBENZENE	8 TOLUENE-D8	1 TOLUENE	1,1,2,2-TETRACHLOROETHANE	TETRACIILOROETHYLENE/TETRACIILOROETHENE	TRICILOROETHYLENE / TRICILOROETHENE	ATRAZINE	Varona/Dichlorvos/Dichlorophos	VAIONA	Ͱ	+-	A SUPONA / 2-CIII.ORO-1-(2,4-DICIII.OROPIIENYI.) VINYL DIETIIYL		NITROSO DI-N-PROPYLAMINE	$\vdash$	N-NITROSO DIPHENYLAMINE	H		-	I, 4-DICHLOROBENZENE	BENZENE		$\dashv$	S TOLUENE		Z		1,3,5-TRINITROBENZENE	⊢	┝	2,4-DINITROTOLUENE	2,6-DINITROTOLUENE	2-NITROTOLUENE	CYCLOTETRAMETHYLENETRANITRAMINE	NTROBENZENE
1 Analyte	6116	7	•	_	1001	CHER	C1.21.3	•	_	118010	1.106115	MEC6D8	MECHIS	TCLEA	TCLEE	IRCI E	A 12	DDVP	DIOVP	NIII.	PRTIIN	SUPONA		NDNPA	NNDME	NNDPA		12DCLB	13DCLB	14DCLB	C6116	C1.C6115	ETC6115	MI:C6115	MXYLE	OXYLEN		13STNB	-	246TNT	24DNT	-	_	INX	H:1
Method	1 Mile	1	I.M.	1.MIG	1.M16	1.M16	N N	NIK.	1.M16	1.M16	I MI6	1,N116	1 M16	LM15	1 M16	1.N16	L.N03	NO	(ON.)	Š	I.N03	.N03		1.N06	1.N06	90N'T		1.103	1.P03	1.103	1.103	1,103	LP03	1,103	1.103	LP03		1.W26	1.W26	1.W26	1.W26	1.W26	1.W26	1.W26	1.W26

## Arthur D. Little Certified USATHAMA Methods

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Method Plane	EXPLOSIVES/SOIL/AIPLC	EXPLOSIVES/SOIL AIPLC	HERBIC DESCON AIREC	HEDBICHNESSON AND C	HERBICIDES/SOIL/JIPI,C		NG/2A46DT/PETN IN SOIL	NG/2A46DT/PETN IN SOIL	NG/2A46DT/PETN IN SOIL.		METALS/WATER/CVAA	METALSAWATTERVAA	ME FALSAVATER/AA	METAL SAVATERIAA	METAL SAVATERIAA	METAL SWATERIAA		METALS/WATER/GFAA	METALS/WATER/GFAA	METALS/WATER/GFAA	METALSWATERKOFAA	METALS WATER/GRAA	METALS/WATER/GFAA		METALS/WATER/ICP	METALS/WATER/ICP	METALSAWATERACP	METALS/WATER/ICP	METALS/WATER/ICP	METALS/WATER/ICP	METALS/WATER/ICP	METALS/WATER/ICP	METALS/WATER/ICP	METALSAVATER/ICP	METALS/WATER/ICP	METALSAVATER/ICP	METALS/WATER/ICP							
Hold_time2 Cert.	40 CI	40 CI	40 1.2	-	40 CI	-	40 C1	40 C1	40 Ct	-	0	13.0	+	+-	+-	+-		0 C1	+-	┿	1 0	+	10 0		0 CI	0 C1	0 C1	10 0	10 O	0 CI	0 CI	0 C1	10 O	0 C1	-	0 C1	-	+-	0	-		•		0 C1
Hold_tune 1 Hold	98	99		7	1		95	95	95		0	10		0	0	0		0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	С	0	0	0	С	0
Hold_time	0	0		0	0		0	0	0		28	081	102	081	180	180		180	180	180	180	180	180		180	180	180	180	180	180	180	180	180	081	180	180	180	180	180	180	180	180	180	180
Upper	10	01	14.5	146	28.8		9.76	10	17.6		2	2500	250	2	250	250		4	50	100	40	20	80		200	2250	900	2500	40	10	1000	\$0	200	100	100	200	800	200	8	150	0001	1500	1500	200
Reporting	0.445	1.04	0.854	80	1.15		0.488	0.501	0.88		0.300	787	46.8	10.6	78.7	38.8		0.316	3.09	26.8	4.74	4.1	14.6		32	81.5	43.8	125	1.52	0.341	36.6	2.67	25	4.47	4.29	24.6	38.1	6.88	14.9	8.76	40.6	51.2	104	31.1
Compound Name		N-METHYL-N.2,4,6-TETRANITROANILINE/NITRAMINE	2,4-DICHLOROPHENOXYACETIC ACID	2,4,5-TRICHLOROPHENOXYACETIC ACID	2-(2.4.5-TRICHLOROPHENOX Y) PROPIONIC ACID			NITROGLYCERINE	PENTAERYTIIRITOL TETRANITRATE	Minding		COBALT	CHROMIUM	COPPER	IRON	MAGNESIUM		SILVER	ARSENIC	MAGNESIUM	LEAD	SELENIUM	VANADIUM		SILVER	ALUMINUM	ARSENIC	BORON	BARIUM	BERYLIJUM	CALCIUM	CADMIUM	COBALT	CIIROMIUM	COPPER	IRON	MAGNESIUM	MANGANESE	MOLYBDENUM	MCKF.1.	LEAD	VANIMONY	SELENIUM	TGILLURIUM
	KDX	I K	Gr.Z	2451	2451P		7.46UI	SU	2		+	93	CR	CÚ	1.6	MG		۷C	AS			SE	>		AG	Al.	AS	=	I3A	1	1	1	1		CU	FE	MG	MN	MO		PB		1	
Mether	1.W.26	ŝ. 	65W.I	1.W29	LW29		1.1.35	2	1.w35	1000		SC (36	SC06	SC06	SC06	SC()6		202	S S S	SD24	Single Single	SD24	SD24		5516	5516	<b>SS16</b>	<b>SS16</b>	5516	5516	<b>SS16</b>	SS 16	SS16	<b>SS16</b>	SS16	SS16	<b>SS16</b>	5816	SS16	5516	5516	\$516	T	5516

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Hold_time2 Cert. Method Name	0 CI METALS/WATER/ICP	0 CI METALS/WATER/ICP	0 C1 METALS/WATER/ICP	0 CI IRON2/SPECTRO/WATER		0 CI IIEXCR/WATER/SPEC	0 CI ANIONS/WATER/TECIINICON	0 CI INORGANIC/WATER/IETINICON		0 C1 INORGANIC/WATER/LECTINICON	O CI ANIONSWATTRAC	5 5	ت	5	CI	CI	0 C1 ANIONS/WATER/IC		0 CI CYANIDE/WA'TERMANUAL	Culting and Albandaria	Ī	0 CI LIALOCARBONS/WATER/GCCON	ر ا	0 CI HALOCARBUNS/WATER/GCCON			ت ت	5							CI	0 C1 HALOCARBONS/WATER/GCCON	0 CI HALOCARBONS/WATER/GCCON	5	i)	0 C1 HALOCARBONS/WATER/GCCON
Hold_time1	0	0	0	0		0	0	0		0	6	0	0	0	0	0	0	0	0		2	0	0	0	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hold_time	081	180	180	180		-	28	28		28	×	28	28	28	2	2	28	2	14	-		14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Upper	2000	80	200	1000		200	001	1600		1250	0.001	2002	2000	200	1000	200	1000	\$000	200	306	200	1.98	-	2	4	1.98	3.97	2.01	1.99	4.02	3.97	3.96	4	. 10	6.6	2.04	16.1	80	2.03	2
Reporting Limit	114	4	19.4	5.29		5	5.26	28.1		70	Ş	273	71	27.9	28.3	24.3	33	137	5	3.5		0.179	9900	990:0	0.256	0.269	0.548	0.269	0.133	0.235	0.394	1.34	1.05	0.46	0.858	0.151	2.38	0.733	0.727	0.727
Analyte Compound Name	L THALLIUM		ZN ZINC	FI3		CRIIEX IIEXAVALENT CIIROMIUM	NIT • NITRITE, NITRATE-NON SPECIFIC	PHOSPHORUS		NZKJEL - NITROGEN BY KJELDAIIL METTIOD	RECAMIDE		FLUORIDE	NII •NITRITE, MITRATE-NON SPECIFIC	~	-	FO4 PHOSPHATE	S()4 SULFATE	CYN CYANIDE		÷	HITICE   L.LTRICHLOROETHANE	╁-	11.21CE 1,1,2.TRICHLOROETHANE	I I.V.CE 1, 1-DICHLOROETHYLENE / 1, 1-DICHLOROETHENE	HIXTLE LI-DICHLOROETHANE	I2DCI.B   1,2-DICHLOROBENZENE	12DCLE 1,2-DICHLOROETHANE	121XCLP 1,2-DICHLOROPROPANE	I DCLB 1,3-DICHLOROBENZENE	-	BROMODICHLOROMETHANE	$\vdash$	CIILOROFTHENE / VINYL CHLORIDE	-	i	CH2CL2 METHYLENE CHLORIDE	-	-	CHCL3   CHLOROFORM
Method	SS16 TL	V 3188	2 9188	SY02 F	Ť	SY03 C	TF10	T132 P4	<del>-</del>	1F36 N	8011.		80	<del></del>	i	1	_		1712 C	12	1	1000	:	UGOS	UGOS	_			Z002	0000	UG05	UG05	÷	┢	1	,	П	$\vdash$	OCOS C	_

## Arthur D. Little Certified USATHAMA Methods

Hold_time2 Cert. Method Name	0 CI HIALOCARBONS/WATER/GCCON	-	0 CI HALOCARBONS/WATER/GCCON	0 CI HALOCARBONS/WATER/GCCON	0 CI IIAI.OCARBONS/WATER/GCCON	0 CI HALOCARBONS/WATER/GCCON	0 C1 HALOCARBONS/WATER/GCCON	113	118	=	40 I IB PESTICIDES/WATER/GCEC	118	118	40 1B PESTICIDES/WATER/GCEC	40 I IB PESTICIDES/WATER/GCEC	40 1B PESTICIDES/WATER/GCEC	40 1B PESTICIDES/WATER/GCEC	40 1B PESTICIDES/WATER/GCEC	40 118 PESTICIDES/WATER/GCEC	40 1B PESTICIDES/WATER/GCEC	18	40 CI PHENOLS/WATER/GCFID		40 CI PHENOLS/WATER/GCHD	40 C1 PHENOLS/WATER/GCFID	40 C1 PHENOLS/WATER/GCFID		_	_	40 CI PHENOLS/WATER/GCPID	١	Ĭ	40 HB ORGANOPHOSPHOR/WATER/GCLF	į	7	-	5	Ü	40 C1 ORGANOSULFURS/WATER/GCFP	40 CI ORGANOSULFURSAVATER/GCFP		\ \	1A	40 IA ORGANICS/WATER/GCMS
Hold_time1	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	+	1	-	-	1	+	7	7	7	7		7	7	71
		=	4.	14	14	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- ,	5	0	ļ	ا ءار	- -	0	-	0	0		0	0	0
Hold_time																																												
Upper	3.99	2	4	4	2.03	1	66 1	0.05	0.05	0.5	0.5	0	0.5	0.05		-	0.5	~	~	-	-	6.13	4.67	4.61	7.89	122	6.22	45.4	7.52	105		2	25.2	3	7.7	S	49.9	206	25.1	25.1		200	200	<u>e</u>
Reporting Limit	0 999	0.383	0.667	0.708	0.563	0.03	0.366	0.00561	0.000	0.0369	0.0218	0.00764	0.0309	0.00841	0.061	0.134	0.033	1890.0	0.0754	0.0201	0.088	1.68	1.41	0.513	0.703	10.3	0.946	7.53	0.763	8.59		4.14	2.48	;	7.4	2	14.3	13.7	2.22	2.14		3.6	2.8	10
Compound Name	S   CIILOROBENZENE	DIBROMOCHLOROMETHANE	_	$\rightarrow$	1,1,2,2-TETRACHLOROETHANE	-	TRICHLOROETHYLENE / TRICHLOROETHENE			+	-	+	_1	-	<del>-}</del>	ISODRIN	LINDANE / GAMA-BENZENEIIEXACIILORIDE /GAMMA-HEXACIIL	I/CIB 1016	щ	2,2-BIS (PARA-CHLOROPHENYL) 1,1-DICHLOROETH	2,2-BIS (PARA-CHLOROPHENYL) 1,1-DICHLOROETH		_	2-CIILOROPIIENOL	2-NITROPHENOL	-1	4-CHLORO-3-CRESOL / 3-METHYL-4-CHLOROPHENOL	4-NTIROPHENOL	•TRICHLORO PHENOLS	PENTACHLOROPHENOL.	Price and American Price and American and	DISOFROITIME INT. PROSPICONATE	DIMETHYLMETHYL PHOSPHATI:	BENZOEHI AZOLI:	DENKO IIII AKOLE	+	_	_	DITHIANE	1,4-OXATIIIANE	-+	-	1,2,4-TRICHLOROBENZIENE	
	CLC6IIS	DIRCLA	TIZDCE	T13DCP	ICLEA	TCLEE	IRCLE	VRIIC	ACI.DAN		DE DE	I:NDRN	GCLDAN	<u>-</u>	ECE	ISODR	Z.	PCR016	PCB260	PPDD	PPDDE	24DCLP	MANUEZ	2CLP	ZIAP	46DN2C	\$C1.3C	47.5	<u>C</u>	<u>5</u>		1	JWW JWW	0.17	310	CLE	CINESO	CIMSO2		UXV1		123 CB	1241CIS	LIZDCLB
Method	110.05	110305	COS	U.S.S	2 2 2 3	CGGS	UG05		9	9115	01118	2 2	<u>8</u>	915	9 5	01116	01116	1)1116	01116	01116	01116	US	2000	3	200	S S	3	3	<u>.</u>	8050		7 1	UK02	10			U.03	n n	3	CUG		UM16	NM16	UM16

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Method Name	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATTER/GCMS	ORGANICS/WATER/OCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCNIS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCNIS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICS/WATER/GCMS	ORGANICSAVA TERAGONS	ORGANICSWATERICKINS	ORGANICS/WATER/GCMS
Cen																																											0 1		5	9
lime2	40 IV	40	40 P	40 14	40 IA	40 1A	40 14	₽  -	40 IA	40 1A	40 17	\$ 1.√	40 IA	40 1A	40 IA	40 1A	40 1A	40 IA	40 IA	40 1A	40 14	-	40 14	40 17	₩ -	40 IA	40 IA	40 IV	40 1A	40 IA	40 IA	40 IV	40 1A	40 1.4	40 IA	40 14	40 IA	40 1A	40 1A	40 IV	40 1A	40 I A	40 17	40 17	40 17	40 17
Hold_time2	L											_																																		
Hold_time1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Hold_time	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O	0	9
	100	100	001	200	200	100	001	8	001	001	100	205	200	001	001	001	100	100	001	001	200	200	100	200	8	100	100	100	100	100	100	100	200	100	100	100	200	100	200	200	001	100	100	100	101	200
Upper Limit	-																																		18											
Reporting	ف	8.5	4.4	5.5	9.9	9.6	8.9	12	7	61	20	80	32	14	10	23	4.9	7.1	21	≃	8.3	1.2	5.9	8.9	38	7.5	6.4	13	1.7	11	15	15	9.9	20	1	6.2	7.2	7.2	5.8	7.3	-	5.6	4.5	9.1	22	9.7
Compound Name	M 1,3-DICHLOROBENZENE-D4	JI 1,3-DICHLOROBENZENE	-	7 2,4-DINITROTOLUENE	r 2,6-DINITROTOLUENE	P 2-CIILORONAPITTIALENE	ALPHA-BENZENEHEXACHLORIDE/ALPHA-HEXACHLOROCYCLO	⊢	NE ACENAPITHENE	YI ACENAPITIIYI.ENE	C ANTHRACENE	▙	Ι-	TR BENZO (A) ANTIIRACENE	R BENZO (A) PYRENE	NT RENZO (B) FLUORANTIIENE	BETA-BENZENEIIEXACIII.ORIDE / BETA-HEXACIII.OROCYCLOHE	PY   BENZO  G,II,I] PERYLENE	Ξ	H	┪	╁	$\vdash$	┿-		A DIBENZ [A,II] ANTIIRACENE	DELTA-BENZENEIIEXACIII.ORIDE/DELTA-III:XACIII.OROCYCI.O	-	DITHIANE	N DIELDRIN	DI-N-OCTYI, PHTHIALATE	DA DI-N-OCTYL PITTIALATE-D4	N ENDRIN	FI. UORANTHENE	┢	HEIVIACIII.OIR	E   HEPTACHLOR EPOXIDE	R INDENO (1,2,3.C,D) PYRENE	∺	MALATHION	╌	-	t	Τ	R PHENANTHRENE	D 7.2-BIS (PARA-CIII.OROPHENYL)-1, 1-DICHLOROETHANE
1 Analyte	130804	13DCLB	14UCLB	24DNT	Z6DNT	CNAP	ABIIC	ALDRN	ANAPNE		ANTRC	HZCLEE	BZEIIP	BAANTR	BAPYR	BRFANT	BEILC	RCHIPY	_	CIRY	_	_	CINIS	CPMSO	_	_	SEIC	DE:734	HILIC	DIJORN	DNO	DINOPPA	FNURN	<u> </u>	HCBD	E E	HICLE	ICDPYR	Z	_	•	MBDS	NONPA	DXAT		CCCOM
Method	UNII6	UM16	UM16	UNI16	UNI 16	UM16	UN116	UNI16	UM16	UM16	UM16	UNII6	UNI16	UMI6	UM16	11,1116	UNI16	UM16	UNI 16	UN16	UNI16	UNIG	UM16	01116	UM16	11N16	UNI 6	UNI 16	UNIE	UNII6	01116	011116	0M16	UN116	0.3416	UM16	UMI16	11116	0MI6	91150	OMI6	UNI 6	11M16	1.M16	UNIS	11111

## Arthur D. Little Certified USATHIAMA Methods

Cen. Method Name	1A ORGANICS/WATER/GCMS			1A ORGANICS/WATER/GCMS		1	1	1	1	IA VOLATILES/WATER/GCMS	Ť	$\dagger$	T	1		T			T						T			1A VOLATILES/WATER/GCMS	1A VOLATILES/WATTER/GCMS		IA VOLATII ES/WATER/GCMS	IA VOLATILES/WATER/GCMS	IA VOLATILES/WATER/GCNIS	1A VOLATILIS/WATER/GCMS	TA VOLATILES/WATER/GCMS	1A VOLATILES/WATER/GCMS						1	C1 ORGANOPHOSPHORAVITERACTUP
lold_time!	7 40	7	7 40	7 40	Ġ	0		٥					0		+-	0	C	0	0	0	0	0	0	+-	0	0	0	0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		-4	Ī	Ī	40	-+	7   40   6
r Hold_time Hold_time!	0 0	0 0		0					7										7		41	2	4		1		14	14	14	14	14	14	14	14	14	14							0
porting Upper	3	Ц		17 100	1 7		l		1		$\perp$			L	L	8.1 200	82 200		0.5 200		2.4 200	3.7 200	12 200	5.4 200	1.6 200	8.2 200	0.83 200	1.4 200	6.5 200		╛		8.7 200			0.5 200		1				ightharpoons	0952 22.6
Re	2.2-BIS (PARA-CHLOROPHENYL)-1,1-DICHLOROETHENE	╅	z	FYRENE	111TCE 111-TRICHI OROETHANE	1.1.2-TRICIILOROETIIANE	1.1-DICHLOROETHYLENE / 1.1-DICHLOROFTHENE	1	+-	<del> </del> -		12DCLE 1,2-DICHLOROETHANE	12DCLP 1,2-DICHLOROPROPANE	13DCLB 1,3-DICHLOROBENZENE	13UCP 1,3-DICHLOROPROPANE	14DCLB   1,4-DICIII.OROBENZENE		BROMODICHLOROMETHANE	-1	I. CIILOROETIIANE	DENZENE	-+	-1	7	+	i	CITLOROFORM	_	┿	-			ᅿ	+	7	TRCLE TRICHLOROETHYLENE / TRICHLOROETHENE	A TO A ZONIC	AIKALINE	VAPONA	Vapuna/Dichlorvos/Dichlorophos	MALATIION	PARATHION	SUMBAN SUMBAN Z-CIII.ORO J-(Z,4-DICIII.OROPHIENYI.) VINYI, DIETTIYI.
_		_	7	UNIO	UM33	t	┿~	+-	╈	+	UM33 121	UM33 121	UM33 121	UM33 131	UM33 131	UN133 141	UM33 2CI	-	┪	_	-		<del>-</del>	-+	-	+	Ť	Ť	-	ij	<del>-</del>	Ť		7	÷	UNISS	_	i	7	+		7	IND ISDI

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Cert. Method Nance	INTROSAMINES/WATER/GCNPD	NITROSAMINES/WATER/GCNPI)	NITROSAMINES/WATER/GCNPD		AROMATICS/WATER/GCPID	AROMATICS/WATER/GCPID	AROMATICS/WATER/GCPID	AROMATICS/WATER/GCPID	AROMATICS/WATER/GCPID	AROMATICS/WATER/GCPID	AROMATICS/WATER/GCPID	EXPLOSIVES/WATERAIPLC	EXPLOSIVES/WATERAIPLC	EXPLOSIVES/WATER/IIPI.C	EXPLOSIVES/WATER/IIPLC	EXPLOSIVES/WATER/IIPI.C	EXPLOSIVES/WATER/IIPI.C	EXPLOSIVES/WATER/IPLC	EXPLOSIVES/WATTERAIPLC	EXPLOSIVES/WATERAIPLC	HERBICIDES/WATER/IIPI.C	HERBICIDES/WATER/HPI.C	HERBICIDES/WATER/HPLC		NG/ZA46DT/PETN IN WATER	NG/2A46DT/PETN IN WATER	NG/ZA46DT/PETN IN WATER
	40 CI	<del>0</del>	40 CI		12 0	<u>ပ</u>	<u>ပ</u>	<u>5</u>	7) 0	0 C1	0 0	5 C1	40 CI	40 CI	\$ CI	40 CI	40 CI	<del>6</del> 0	2 C1	40 C1	40 CI	<del>2</del>	40 C1		10 CI	40 CI	40 CI
Hold_time2																											
Hold_time   Hold_time	-	7	7		0	0	0	0	0	0	0	8	95	98	98	98	95	98	95	98	7	7	7		88	86	8
Hold_time	0	0	0		14	14	14	14	14	14	14	0	0	0	0	0	0	0	0	0	0	0	0		0	0	°
Upper 1 imit	જ	20.1	100		3.97	4.02	4.08	3.98	3.98	7.98	3.99	24.3	25	49.7	49.3	50.2	49.9	110	15	19.7	19.4	39.3	18.6		19.7	10.2	35.8
Reporting	0.25	0.224	0.0		0.167	0.105	0.215	0.128	0.102	0.317	0.362	0.388	0.27	0.767	1.16	1.11	0.869	1.54	0.617	0.191	1.99	3.06	1.55		1.82	0.509	2.54
Compound Name		_	N-NTROSO DIPHENYLAMINE	_	_				_	ETHYLBENZENE	TOLUENE	1,3,5-TRINITROBENZENE	1,3-DIMTROBENZENE	2,4,6-TRINITROTOLUENE	2,4-DINTROTOLUENE	2,6-DINITROTOLUENE	CYCLOTETRAMETHYLFNETETRANITRAMINE	NITROBENZENE	CYCLOTRIMETHYLENETRINITRAMINE/CYCLONIT	N-METHYL-N,2,4,6-TETRANITROANILINE / NITRAMINE	2,4,5-TRICHLOROPHENOXYACETIC ACID	2-(2.4.5-TRICHLOROPHENOXY) PROPIONIC ACID	2,4.DICHLOROPHENOXYACETIC ACH)	-	-+	MIROGLYCERINE	PENTAERYTJIRITOL TETRANITRATE
Method Analyte	NDNPA	NOME	YAQNY N		120CE	13DCLB	14DCLB	9 <u>8</u> 9	CLGGIS	ETCGIIS	MECGIIS	13STNB	13DNB	246TNT			IMX	æ	RDX	TETRYL	245T	245TP	24D		2A46DT	2	PETN
Method	П	90 20 20 20 20 20 20 20 20 20 20 20 20 20	2 2 2 2		3	<u>Ş</u>	ē S	<u>8</u>	ğ	3	\$		_	UW26	97MO	-		_		97M	2	IEM0	<u>₹</u>	_		_	UW42



				50	901 L						*	ATER			
•		America	Container	1000					Amound	Container	HOLD				
444444	Analyte		ind Flaattve	Extr./	METHOD METHOD	Certified	5	1	Sample	•	Estr./	METICO	Certified	5	
Anether As			20 00		W. Po				3		901/	1		, , ,	
			3			•				0.5 mt 11NO				3	
HEX CHROMEM Cr+6	CRIEX	9 01	4 oz. w/m Plastic	./24 hrs.	Auto	JY03	9.0		125 mL	Plastic	-/24 hrs.	Auto	Sroi	5.5	
F	FEZ		CERT		HOT RECURED	9			500 mL	Plestic	.17	Spec	SYD4	50.0	
	6.0	9.	20 ml. Poveth. Viel		GFAA	1205	0.467		250 mL	Plastic 0.5 mt 11Nos	./180	GFA4	81 QS	4.47	
MAGNESHIM Mg	D <sub>M</sub>	9	20 mL Polyeth. Viel	001/-	§	3402	2.37		250 mt.	Plastic 0 S mL 11NO <sub>3</sub>	./180	FLAA	SC07	6.35	
MERCURY He	<u>5</u>	9	20 ml. Polyeth. Viel	./20	5	<b>9</b> ,	0.05		500 mL	Plastic 0.5 mt 1840 <sub>3</sub>	./20	۲	<b>9</b> 20	0.10	
SELENUM Se	SE	9	20 ml. Polyeth. Vlai	./180	GFAA	JD20	0.448		250 mL	Plastic 0.5 mL HNO <sub>2</sub>	./180	GF.₩	SD25	2.53	
SEVER AB	γg	0.0	20 ml. Polyeth. Viel	0611.	GFAA	JD22	0.0124		250 mL	Plastic 0.5 mL HNO <sub>3</sub>	./180	GFAA	9ZQS	0.333	
VANADEJA	>	9 01	20 mL Polyeth. Vist	091/-	GFAA	J023	0.041		500 ml.	Plestic 0.5 mt. 1NVO <sub>2</sub>	./100	GF.∕A	SD20	4.38	
ANDMA	NI 13N2		CEAN	CERTIFICATION	NNOT RECURSE				125 mL	Pieeric 0.5 mt H2SO	-/20	Auto Analyzer	1630	6.42	
AMONS Bromide	ò	••	20 mf	./20	Š	K107	0r 5.0		125 mL	Plestic	./20	va C	1100	Br 407.	
Fluoride Choride Suffate	ភពខ្ល		Poyen. Vie		Carem.		CL 7.12 SQ4 5.0							Ct 278. SO4 175.	
CYANDE	CVN	9 01	4 oz. w/m Plasiic	111	Auto Analyzer	KF 18	0.25		250 mL	Plestic 1.0 mt NeOli	114	Auto Ansiyzer	1634	9.0	
WIRATEANTRITE	NI T	9	4 oz. w/m Plastic	./20	Auto Anatyzer	KF 17	1.00		125 mL	Piesifc 0.5 mt 11,50,	-,20	Auto	3	0.0	
NATION	MO2		CERII	CERTIFICATION	NNOT PECUPED	CEN			125 mL	Plantic	-/40 hrs.	Auto Anelyzer	1631	5.0	
WITTOGREAM	S S	•	4 oz. w/m Plestic	827-	Auto	LF05	23.1		125 mL	Pinntic	-/20	Auto Analyzer	E 3	222	
I PHOSPHORUS	2	• •	4 oz. w/m Plastic	./20	Auto Analyzer	KF 10	41.6		125 mL	Pinelic 0.5 mt 15,50 <sub>4</sub>	./26	Auto Analyzer	16.20	1.0	
IXN	NZKJEL		СЕЯП	CERTIFICATION	NNOT PECUMED	CEN			125 mL	Pleetic 0.5 mL 14,50 <sub>4</sub>	./20	Auto	1620	64.0	
SULTDE	ဖ		CENII	CENTFICATION	NNOT RECURRED	CEU.			125 mL	Plante 1 ml ZnAc	11:	9 <b>6</b>	17 15	• =	Preservatives added passible:
									1	I ME PROFILE					



	Ö	250 250 250 250 250 250 250 250 250 250	CeHE 1.06 MECHE 1.47 ETGENE 1.37 130MB 1.32 XYLEN 1.38 (2.CeNE 1.39 120CLB 0.482 140CLB 0.699	See Page 7	See Page 7
	Cort	1000	8/8	12/15	92%0
TER	METHOD	<b>2</b> 19 19 19 19 19 19 19 19 19 19 19 19 19	P61AC	OCANS	SC/MS
WA	HOLD TIMES Extr./	<u> </u>		114	1/40
	Container And Fixative		40 mL VOA Vial uv Septum 4 drupe 13 HCl	40 mt. VOA Visi w'Septum	Anther Chass wiffe Cap
	Amount Sample	\$ # \$ # \$ # \$ # \$ # \$ # \$ # \$ # \$ # \$ #	5 = 60 HC	2 = 6 A	· Llor
	<b>8</b> 0	TCLEA eazeo 120CLB e.ost 120CLB e.ost 120CLB e.ost 120CLP e.ost 120CLP e.ost 04GC, 0	CO-16 0.006 MECO-16 0.10 ETCO-16 0.10 130MB 0.20 XYLEN 0.39	Dee Page 7	See Page 7
		Endiange oogt accommanderial	2 3 5 5 5	*	₩.
	Con.	P	AAe Big Big K		9 92/91
301 L	METHOD Cen.	<b>8</b>		C2791	
SOIL		P61/0C 1/000	*	OCAMS LM23	92M1
	Consider TMES And Finalize Extr. / METHOD	Manual VOA Vad 7/10 PST/GC LGGG	ato risk VOA Vual 7/14 Pat/GC AAo us'o Baptum (Abetiumal)	at NOA -/14 GC/MB LM29	7/40 OCMS LM26
	HOLD TINES TO Extr./ METHOD	at at VOA Va. 7714 P67/OC LOSS	7/14 PET/GC AAB	Visi (Memorial)	7/40 OCMS LM26
	Combiner TMES And Finality Exit. METHOD (Schools Method)	The Part of the Pa	ato risk VOA Vual 7/14 Pat/GC AAo us'o Baptum (Abetiumal)	2 = 10 g 40 mt VOA -/14 GC/A8 LM23	4 ez. wim 7/40 GC/MS LM26 Amber Gless w





				80	301L						¥	WATER			
		Amount	Container	SEW1					Amount	Container	HOLD TIMES				
USATIMMA Analyte	Anelyte	Semple Needed	And Fixetive (Solvent)	Extr./ Analysic	METHOD INSTR.	Certified Method #	CPE (#9/8)	Comments	Sample Needed	And Firative, (Solvent)	Extr./ Analysis	METROD INSTR.	Certified Method #	OR. (#9/L)	Comments
ICP METALS!		9 01		001/-	ð	64		FMA	500 mt		./180	ద్ది	<b>8</b> 08		RIMA Analytes
	-		Potroth. Val		Sequent			Analytes		0.5 mt HNO <sub>3</sub>		Sequent.			
Cedmium	8						2008							<b>20 67</b>	
Catchum	5						:							CA 500.0	
Chrombem	5						CHES							CR 24.0	
adde:	3 6						3							22.20	
Mennethm	2 2						:							0 005 071	
Potessium	<u>×</u>						:							K 250.0	
Sodium	¥ ?													NA 940.0	
CPLETAGE		١	1 OC	981/	2	1912		CASS	TE 999	Pissile	1180	8	\$512	2.75	CLASS Applying
			Polyen. Viel	_	Simulten.	!		Analytee		O.S mt HNO,		Simultan			
Aluminum	٨						AL 11.2							AL 112	
Antimony	88						SB 19.6							SB 600	
Arcenia	84						AS 16.4							AS 117	
Bortea	<b>V</b>						BA 3.28							BA 2.82	
Beryhlum	, e						St 0.427							DE 1.12	
Cadmium	_ G						8							CO 6.78	
Celcula	5						CA 25.3							CA 105	
Chromhum	5						S : 8							CR 168	
Coper	8						828							0 % 00	
Capper	3:						3.5							3 5	
	. E						77.4							PB 43.4	
Menetra	2						MO 10.1							MG 135	
Manganese	2						74 0.87							MN 9.67	
Mohibdonum	9						20.5							MO 52.7	
Media	<b>=</b>						Z 2.7							N 32.1	
Potessium	× ;						7 13 15 15 15 15 15 15 15 15 15 15 15 15 15							SE 97.1	
MULTIPOS SIGNATURA	200						200							AG 100	
Sept.	2 4						^ 8. ¥							NA 270	
Tefferfue	16						TE 14 0							1E 110	
Thefflum	=						7. 34.3						-	11. 125	
Ē	20						SK 7.45			_				8N 80 0	
Veredium	>						V 1.41							V 27 6	
Zinc	ZN						ZN 2.34							0.81 N2	



	<b>-</b>														
					5						Ì	WATER			
		Amount	Container	HOLD					Amount	Container	HOLD TAKES				
USATHAMA Analyte	Analyte Code	Sample Needed	And Finedow (Solvent)	Entr./ Analysis	METHOD NSTR.	Cert. Method	CR. (#9/9)	Comments	Semple Needed	And Fixative/ (Solvent)	Extr./ Analysis	METHOD INSTR	Cert. Method	OT. (#9/l.)	Comments
<b>040</b>	<b>J</b> 280	9 9	AD ME VOA	1/40	0C/EC	:	9000		1 Liber	Amber Cless seth TFE Cap	7/40	OCAEC	۷۸۷	0.20	
desc.	DIME			CERTIFICAT		ONNOT REQUIRED			1 Liber	Amber Glass with TFE Cap	7/40	GC/FP0	AWA	0.66	
DasPrOsasP	A PRIO			CENTIFICAT	TONNOT	CONNOT PECLATED			1 Ller	Amber Glees	7/40	OCAFPO	<b>914</b>	DIMP 0.392 DAMAP 0.168	
ENLOSIVES		99	A or with	2/40	374H	CMI			1 Liber	Amber Gless	7/40	E C	CW26		
Ĭ	HWX		ATE C	•			HADK 2.00							HMX 0.633	
A September 1	NOR MA						RDX 1.26							RDX 0.416	
Totryt	TETRAL						TETAN. 2.11							TETRYL O.631	
1, 9, 6. Trinkrebenzene	1387NB						136TNB 0.822							135TMB 0.210	
1.3 Dintrobentene	130NB						130NB 0.504							130NB 0.458	
2. 0. Ointretebene	240NT						24DMT 2.80							24DNT 0.397	
2, 6- Dintinatebene	20DMT						28DMT 2.00							26DNT 0.800	
HEMICOCO		002	4 ac. with	2/40	OCVEC	<b>.</b>	1		- Lle	Amber Glese	7/40	OC/EC	9 5	4	
2.40	240		Amber Gless w				240 0.0300			with TPE Cap				240 0.263	•
2,4,6-19	2457 84.VEX						SAN CORON							SALVEX 0.095	
HADRES				CERTIFICATION NOT REQUIRED	TONNOT	GENTOR			3 1 40 mL	40 ML VOA VIA	07/4	OC/NP	922		
Hydrathe	HOR									ENG Septem				HYDRZ 30.6	
Menamenty fraging	1000													UDAMH 21.0	
HORDCARBONS			d ec. with	2/40	DC/FID	£			1 110	Amber Cless	07/4	QC/FI0	0.4		
Marry bothung Keens	X GIA		IFE Cap (Mach				MBK 0.64							MIBK 4 80	
Deychpentadiene	200						DCP0 0.46							DCPO 4.00	
Deyclahepladens	8						BCHP0 1.16							BCHP0 5.07	
ABDOMBON ABDOMBON		2	Ante Oles	2/40	acrec	Š			3.	Anther Glass with TFE Cap	1/40	0C/EC	<u> </u>		
PESTICIDES			WIFE Cap												
Aireztne	ATZ						ATZ 0.101							A12 4.03	
Peratten	3						PRTI-BL 0.166							PRT144 0.647	
							BLPONA DIA							SUPONA 0 787	
	DOVE						DDVP 0.000							DDVP 0.364	
													İ		



Amount Container Takes Sample And Fisative, Extr./ METROD Cert. CRL  Sample And Fisative, Extr./ Method (µg/L) C.  Sample And Fisative, Extr./ Method (µg/L) C.  1 Lier Amber Glass 7/40 HPLC/OAD UM27  1 Lier Amber Glass 7/40 HPLC/OAD UM28  1 Lier Amber Glass 7/40 HPLC/OAD UM28  1 Lier Amber Glass 7/40 GC/MPD UN10  NNOMEA 0.101  NNOMEA 0.117  (NNOMEA 0.117)  NNOMEA 0.117  NNOMEA 0.117  NNOMEA 0.117  NNOMEA 0.117	abi I		o	5						A W	TER			
Comments Needed (Solvent) Analysis BNSTR Method (µg/L) Comments 1 Liter Amber Glass 7/40 HPLCOAD LW27  1 Liter Amber Glass 7/40 HPLCOAD LW29 21.1  with TFE Cap 7/40 GCAPD LW10 NNOMEA 0.101 NNOMEA 0.101 NNOMEA 0.101 NNOMEA 0.101 (NNOMEA 0.101 NNOMEA 0.101) (NNOMEA 0.101 NNOMEA 0.101) (NNOMEA 0.101) (NNOMEA 0.101) (NNOMEA 0.101) (NNOMEA 0.101) (NNOMEA 0.101)	Container TMES And Finalive/ Extr./ METHOD	METHOD	ETHOD Con.	٦. م.						TIMES Extr./		Corr.		
1 Lier	7/40	E S		LW77		(6/64)		Necded - Lite		7/40	NSIR. FLCOAD	Page 2MS	T	Comments
1 Lier	Amber Gless WITE Cap				_	NO 0.510			and the Cap				NO 1.40	
1 Liker	10 g 4 eg. w/m 7/40 HPLC/ LW30 Arriber Class and FF Cas	HPLC/ LW30 DPG	GCW]	ļ	1	0.0434		- 15	Arriber Glass with TFE Cap	7/40	FLCOAD	62.MS	21.1	
1 Liter Arrior Glass 7/40 3C/EC UP:20	7/48 DCAPO LIOS	DCAPO LVOS	8		232	NAVOMEA 0.010 NAVONPA 0.0662 NAVOPA 0.060		- 154	Anther Glass with TFE Cap	7/40	OCANDO	ON O	NADALEA O.101 NADANA 1.80 NADPA 1.83	
1 Liter Amber Glass 7/40 GCEC URDO with TFE Cap								· · ·				CNOT).	(MNDMEA 0.0421)	*Do not use without consulting R. Gostasi
	Anher Glass wTFE Cap	0C/EC		283	-		NON-FMA NON-FMA NON-FMA	1 Llor	Amber Glass with TFE Cap	7/40	30Ec	02 <del>1</del> 0		FORALL NON FMA WOFK
	180	100 N	H80	HEO NA	10 X	DBHC 0.0086 LW 0.0010		_					DBHC 0.0034	
	OCON	CLDA	200 E	9,09	252	N 0.000 K							CLDAN 0.0312 DLDRN 0.0074 FNDRN 0.0174	
		AF BY	AE BAC	AE GE	AE BE	F 0.0010					<u>-</u>		ENDRNA 0.0504 AENSLF 0.0025	
	1000	BENSK	1900H	BENBE	100 E	F 0.0007							BENSLF 0.0077 ISOOR 0.0026	
	MEXIC	MEXCI	MEXCL	MEXCH	D D	A 0.006			_				MEXCLA 0 0750 HPCL 0 0026	
	HACCE	HECK	HECK	HPCL		0.0013							PPDDE 0 0030	
	0001	0004	9004	00	0	0 0007							PP000 0 0004	
		PC80				0.0036							PP001 0 0026	
						:							:	
						::							: :	
						\\ :							:	
	PCB200	PC62	PCB2	PC82	PCB2	9 0					<u> </u>		PCB240 0 178	
0000 0010 0010 0010 0000 0000 0013 0013	TXP	TXP	TXP	TXP	ž	TXPHENO		1		1		1	TXPIEN 184	



				8	0						WA	ATER			
				Halb							OTCH				
USATHAMA	Analyte	Semple	-2	Extr./	METHOD	Ç.	<b>ਰ</b> ੍ਹ		Sample	-	TAMES Extr./				
Anario	8		Sowent	Analysis	rolf. Metrod		(8/8)	Comments		(Solvent)	Analyais	RSIA	Memod	(1/64)	Comments
OTOWOO LORNE		8	4 or with	7.40	3936	9502		<b>387 PG</b>	1 Llor	Amber Glass	7/40	300	KOK		ROP LIGH
PESTICIDES #			Amber Olese		•			AT PASS		w/FE Cap		_			AT RMA
			45 E		-			걸							ă
Aldrin	A DRA		(Acetene/Her.)		_	_	ALDRN 0.00211		-					ALORN 0 050	
Chlerdane	CLDAN						CLDAN 6.0230							CLDAN 0.005	
Oleth							DLDRN 0.00181							DLDRN 0.060	
8 8							PPOOL 0.00077							PPODE 0 054	
English	806						ENDAN 0.00471							ENDAN 0 050	
Hesechlerecycl.	CLecp						CLBCP 0.00137							CL6CP 0.048	
thedth	8008			- 4	-	1	1500A 0.00186							ISODR 0.051	
COMPOUNDS		*	Amber Oless w	9 %	2 <u>E</u>	3			-	Amber Glese with TFE Cap	7/40	OCF70	444		
			INE CON DESCRIPTION												
Okrathyteleuilde							CAN DE CO							OMOS 0 56	
	Ě	_					DITH 0.800							DITH 1.34	
Bergerhazole	76						872 6.18							CPMS 5.89	
CPARS	Ž						CPMB 3.20							CPMSO 11.51	
CAMED							CPNBO 19.0							CPMSO2 7.46	
CMOOR	2000			Т	+		CPMSQZ 3.33							612.500	
7 BOS		:	Amber Obes a	**	2 2 2	3			=	Amber Class	1/40	acrio	ş		
A Present			TFE Can SAMCILY				PHENCE 6.202							PHENOL 1.28	
2. Chlomohanel	à						2CLP 0.618							2CLP 0.85	
2. Minghanel	ž						2NF 0.787							2NP 16.8	
2.4 Dimethythenet	202						24DMPN 2.06							240MPN 1.41	
2,4-Dichlerephenel	MOG.	_					240CLP 0.78							240CLP 1.62	
4 CMere-9-cresel	200						4CL3C 0.263				_			40130 1.20	
2.4.9. Trichlerephenel	2 TC					•	2451CF 1.06							2401CF 2.38	
Paragram -							44DACC 63 4							46DN2C 350	
Periefueraphenal	ŧ						PFP 63.0							PFP 201	
Pertechteraphenal	\$						PCP 3.61							PCP 38 8	
IETHAZBE	TETA	100	W/M 70 P	7/40	FEC	LWZ	1.04		260 €	Amber Glass	07/-	Ħ	8	7.03	
			Amber Obse w							WAFE COD					
		7	17E Ca 840 to	1	1	1									
IN PODICIL YOU.		2 - 10 0	AD ME VOA	7/40	Š	3			1 Lie	Amber Glass	7/40	٦ ٢	- 2 -		
			Visit without		8	•				W TFE Cap		2			
			Septem												
Thirdeheat	1000						10001 4 20							TOOC! # 88	
Chieroscette Acte	CICSA						CLC2A 35.8								

### FA Laboratorie USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: High PPL Volatiles in Soil by GCMS

Method Number.....: LM17 Splitting Code....: 01 Certification Class: 1A

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
1.200		1,1,1-Trichloroethane	71-55-6	111TCE
1.200	- • -	1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
1.200		1,1,2-Trichloroethane	7" - 20-5	112TCE
1.200		1,1-Dichloroethane	75-34-3	11DCLE
1.200		1,1-Dichloroethene	75-35-4	11DCE
2.500		1,2-Dichlorobenzene	95-50-1	120CLE
1.200		1,2-Dichloroethane	107-06-2	12DCLE
1.800	50.000	* 1,2-Dichloroethane-d4	17060-07-0	12DCD4
1.200		1,2-Dichloroethene (total)	540-59-0	12DCE
1.200		1,2-Dichloropropane	78-87-5	12DCLF
2.500		1,3-Dichlorobenzene	541-73-1	13DCLI
2.500		1,4-Dichlorobenzene	106-46-7	14DCL
2.500		2-Chloroethyl vinyl ether	110-75-8	2CLEV
1.200	50.000	* 4-Bromofluorobenzene	460-00-4	4BFB
25.000		Acrolein	107-02-8	ACROLI
25.000		Acrylonitrile	107-13-1	ACRYLO
1.200		Benzene	71-43-2	C6H6
1.200		Bromodichloromethane	75-27-4	BRDCLI
1.200		Bromoform	75-25-2	CHBR3
2,500		Bromomethane		CH3BR
1.200		Carbon tetrachloride	56-23-5	CCL4
1.200		Chlorobenzene	108-90-7	CLC6H
2.500		Chloroethane	75-00-3	CZH5C
1.200		Chloroform	67-66-3	CHCL3
2.500		Chloromethane	74-87-3	CH3CL
1.200	•-•	cis-1,3-Dichloropropene	10061-01-5	C13DC
1.200	•••	Dibromochloromethane	124-48-1	DBRCLI
1.200		Ethylbenzene	100-41-4	ETC6H
1.200		Methylene chloride	75-09-2	CH2CL
1.200		Tetrachloroethene	127-18-4	TCLEE
1.200		Toluene	108-88-3	MEC6H
2.100	50.000		2037-26-5	MEC6D8
1.200		trans-1,3-Dichloropropene	10061-02-6	T13DC
1.200		Trichloroethene	79-01-6	TRCLE
1.200		Trichlorofluoromethane	75-69-4	CCL3F
2.000		Vinyl chloride		C2H3C

<sup>\*</sup> Certified analyte.

### EA Laboratoric USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: High TCL Volatiles (2/88) in Soil by GCMS

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
1.200		1,1,1-Trichloroethane	71-55-6	111TCE
1.200		1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
1.200	• • •	1,1,2-Trichloroethane	79-00-5	112TCE
1.200		1,1-Dichloroethane	75-34-3	11DCLE
1.200		1,1-Dichloroethene	75-35-4	11DCE
1.200		1,2-Dichloroethane	107-06-2	12DCL
1.800	50.000	* 1,2-Dichloroethane-d4	17060-07-0	120CD
1.200		1,2-Dichloroethene (total)	540-59-0	12DCE
1.200		1,2-Dichloropropane	78-87-5	12DCL
2.500		2-Butanone	78-93-3	MEK
2.500		2-Hexanone	591-78-6	MNBK
1.200	50.000	* 4-Bromofluorobenzene	460-00-4	4BFB
2.500		4-Methyl-2-pentanone	108-10-1	MIBK
2.500		Acetone	67-64-1	ACET
1.200		Benzene	71-43-2	C6H6
1.200		Bromodichloromethane	75-27-4	BRDCL
1,200		Bromoform	75-25-2	CHBR3
2,500		Bromomethane	74-83-9	CH3BR
1.200		Carbon disulfide	75-15-0	CS2
1.200		Carbon tetrachloride	56-23-5	CCL4
1.200		Chlorobenzene	108-90-7	CLC6H
2.500		Chloroethane	75-00-3	C2H5C
1.200		Chloroform	67-66-3	CHCL3
2.500		Chloromethane	74-87-3	CH3CL
1.200		cis-1,3-Dichloropropene	10061-01-5	C13DC
1.200		Dibromochloromethane	124-48-1	DBRCL
1.200	-	Ethylbenzene	100-41-4	ETC6H
1.200		Methylene chloride	75-09-2	CH2CL
1.200		Styrene	100-42-5	STYR
1.200		Tetrachloroethene	127-18-4	TCLEE
1.200		Tolu <b>e</b> ne	108-88-3	MEC6H
2.100	50.000	* Toluene-d8	2037-26-5	MEC6D
1.200	•••	trans-1,3-Dichloropropene	10061-02-6	T130C
1.200		Trichloroethene	79-01-6	TRCLE
2.000		Vinyl acetate	108-05-4	CZAVE
2.000	•••	Vinyl chloride	75-01-4	CZH3C
1.200		Xylenes (total)	1330-20-7	TXYLE

<sup>\*</sup> Certified analyte.

### EA Laboratorie: USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: High TCL Volatiles (3/90) in Soil by GCMS

Method Number....: LM17 Extended Level..: N
Splitting Code....: 03 Maximum Lot Size: 10
Certification Class: 1A Units.....: UGG

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
1.200		1,1,1-Trichloroethane	71-55-6	111TCE
1.200		1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
1.200		1,1,2-Trichloroethane	79-00-5	112108
1.200		1,1-Dichloroethane	75-34-3	11DCL
1.200		1,1-Dichloroethene	75-35-4	11DCE
1.200		1,2-Dichloroethan <del>e</del>	107-06-2	120CL
1.800	50.000	* 1,2-Dichloroethane-d4	17060-07-0	120CD
1.200		1,2-Dichloroethene (total)	540-59-0	12DCE
1.200		1,2-Dichloropropane	78-87-5	12DCL
1.200		2-Butanone	78-93-3	MEK
1.200		2-Hexanone	591-78-6	MNBK
1.200	50.000	* 4-Bromofluorobenzene	460-00-4	4BFB
1.200		4-Methyl-2-pentanone	108-10-1	MIBK
1.200		Acetone	67-64-1	ACET
1.200		Benzene	71-43-2	C6H6
1.200		Bromodichloromethane	75-27-4	BRDCL
1.200		Bromoform	75-25-2	CHBR3
1.200		Bromomethane	74-83-9	CH3BR
1.200		Carbon disulfide	75-15-0	C\$2
1.200		Carbon tetrachloride	56-23-5	CCL4
1.200		Chlorobenzene	108-90-7	CLC6H
1.200		Chloroethane	75-00-3	CZH5C
1.200		Chloroform	67-66-3	CHCL3
1.200		Chloromethane	74-87-3	CH3CL
1.200		cis-1,3-Dichloropropene	10061-01-5	C130C
1.200		Dibromochloromethane	124-48-1	DBRCL
1.200		Ethylbenzene	100-41-4	ETC6H
1.200		Methylene chloride	75-09-2	CH2CL
1.200		Styrene	100-42-5	STYR
1.200		Tetrachloroethene	127-18-4	TCLEE
1.200		Toluene	108-88-3	MEC6H
2.100	50.000	* Toluene-d8	2037-26-5	MEC6D
1.200	•••	trans-1,3-Dichloropropene	10061-02-6	T13DC
1.200	•••	Trichloroethene	79-01-6	TRCLE
1.200		Vinyl chloride	75-01-4	C2H3C
1.200		Xylenes (total)	1330-20-7	TXYLE

<sup>\*</sup> Certified analyte.

### EF Laboratories USATHAMF Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: PPL Semivolatiles in Soil by GCMS

Method Number....: LM20 Splitting Code....: 01 Certification Class: 1A

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
5.000	•••	1,2,4-Trichlorobenzene	120-82-1	124TC
5.000		1,2-Dichlorobenzene	95-50-1	12DCL
5.000		1,3-Dichlorobenzene	541-73-1	13DCL
5.000		1,4-Dichlorobenzene	106-46-7	14DCL
2.200		2,4,6-Tribromophenol	118-79-6	246TB
5.000		2,4,6-Trichlorophenol	88-06-2	246TC
5.000	• • •	2,4-Dichlorophenol	120-83-2	24DCL
5.000		2,4-Dimethylphenol	105-67-9	
25.000		2,4-Dinitrophenol	51-28-5	24DNP
5.000		2,4-Dinitrotoluene	121-14-2	
5.000		2,6-Dinitrotoluene	606-20-2	26DNT
5.000		2-Chloronaphthalene	91-58-7	
5.000	***	2-Chi orophenol	95-57-8	2CLP
9.600		2-Fluorobiphenyl	321-60-8	2FBP
9.200		2-Fluorophenol	367-12-4	2FP
25.000		2-Methyl-4,6-dinitrophenol	534-52-1	460N20
5.000		2-Nitrophenol	88-75-5	2NP
10.000		3,3'-Dichlorobenzidine	91-94-1	330CB
5.000		4-Bromophenyl phenyl ether	101-55-3	
5.000	•••	4-Chloro-3-methylphenol	59-50-7	
5.000		4-Chlorophenyl phenyl ether	7005-72-3	
25.000		4-Nitrophenol	100-02-7	
5.000		Acenaphthene	83-32-9	ANAPN
5.000		Acenaphthylene	208-96-8	ANAPYI
5.000		Anthracene	120-12-7	
50.000		Benzidine	92-87-5	BENZI
5.000		Benzo(a) anthracene	56-55-3	BAANTI
5.000		Benzo (a) pyrene	50-32-8	BAPYR
5.000		Benzo (b) fluoranthene	205-99-2	BBFAN'
5.000		Benzo(ghi)perylene	191-24-2	BGHIP'
5.000		Benzo(k) fluoranthene	207-08-9	
5.000	• • •	Benzyl butyl phthalate	85-68-7	
5.000		bis(2-Chloroethoxy)methane	111-91-1	BSCEX
5.000		bis(2-Chloroethyl) ether	111-44-4	BZCLE
5.000		bis(2-Chloroisopropyl) ether	108-60-1	B2C1P
5.000		bis(2-Ethylhexyl) phthalate	117-81-7	B2EHP
5.000		Chrysene	218-01-9	CHRY
5.000		Di-n-butyl phthalate	84-74-2	DNBP
5.000		Di-n-octyl phthalate	117-84-0	DNOP
5.000		Dibenz (ah) anthracene	53-70-3	DBAHA
5.000		Diethyl phthalate	84-66-2	DEP
5.000		Dimethyl phthalate	131-11-3	DMP
5.000		fluoranthene	206-44-0	FANT
5.000		Fluorene	86-73-7	FLREN
5.000		Hexachlorobenzene	118-74-1	CL68Z
5.000		Hexach Lorobut ad i ene	87-68-3	HCBD
5.000		Hexachlorocyclopentadiene	77-47-4	
5.000		Hexachloroethane	67-72-1	CL6ET
5.000	•••	Indeno[1,2,3-cd]pyrene	193-39-5	ICOPY
5.000		Isophorone	78-59-1	1 SOPH
5.000		N-Nitrosodi-n-propylamine	621-64-7	NNDNP
5.000		N-Nitrosodimethylamine	62-75-9	NNDME
5.000		N-Nitrosodiphenylamine	86-30-6	NNOPA
5.000	• • •	Naphthalene	91-20-3	NAP
5.000	•••	Nitrobenzene	98-95-3	NB
9.000		Nitrobenzene-d5	4164-60-0	NBD5
25.000		Pentachlorophenol	87-86-5	PCP
5.000		Phenanthrene	85-01-8	PHANT

### EA Laboratories USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: PPL Semivolatiles in Soil by GCMS

Method Number....: LM20 Splitting Code....: 01 Certification Class: 1A

Rep. Limit	Upper A Limit	nalyte	CAS Number	Test Name
8.500	100.000 * Phenol-d6		13127-88-3	PHEND6
5.000	Pyrene		129-00-0	PYR
13.000	100.000 * Terphenyl-d14		6	TRPD14

<sup>\*</sup> Certified analyte.

### EA Laboratorie USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: TCL Semivolatiles (2/88) in Soil by GCMS

Method Number.....: LM20 Extended Level..: N
Splitting Code....: 02 Maximum Lot Size: 10
Certification Class: 1A Units......: UGG

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
5.000		1,2,4-Trichtorobenzene	120-82-1	124TCE
5.000		1,2-Dichlorobenzene	95-50-1	12DCLE
5.000		1,3-Dichlorobenzene	541-73-1	13DCLE
5.000		1,4-Dichlorobenzene	106-46-7	
25.000		2,4,5-Trichlorophenol	95-95-4	245TC
2.200	100.000	* 2,4,6-Tribromophenol	118-79-6	246TBI
5.000		2,4,6-Trichlarophenol	88-06-2	246TC
5.000	• • •	2,4-Dichlorophenol	120-83-2	24DCLI
5.000		2,4-Dimethylphenol	105-67-9	24DMPI
25.000		2,4-Dinitrophenol	51-28-5	
5.000	• • •	2,4-Dinitrotoluene	121-14-2	
5.000		2,6-Dinitrotoluene	606-20-2	26DNT
5.000		2-Chloronaphthalene	91-58-7	2CNAP
5.000		2-Chlorophenol	95-57-8	2CLP
9.600	100.000	* 2-Fluorobiphenyl	321-60-8	2fBP
9.200		* 2-Fluorophenol	367-12-4	2FP
25.000		2-Methyl-4,6-dinitrophenol	534-52-1	46DN2
5.000		2-Methylnaphthalene	91-57-6	2MNAP
5.000	•••	2-Methylphenol	95-48-7	2MP
25.000		2-Nitroaniline	88-74-4	2NAN1
5.000	•••	2-Nitrophenol	88-75-5	2NP
10.000	• • •	3,3'-Dichlorobenzidine	91-94-1	33DCBI
25.000	•••	3-Nitroaniline	99-09-2	3NAN11
5.000		4-Bromophenyl phenyl ether	101-55-3	
5.000		4-Chloro-3-methylphenol	59-50-7	
5.000	•-•	4-Chloroaniline	106-47-8	
5.000	•••	4-Chlorophenyl phenyl ether	7005-72-3	4CLPPI
5.000		4-Methylphenol	106-44-5	4MP
25.000		4-Nitroaniline	100-01-6	4NAN1
25.000		4-Nitrophenol	100-02-7	
5.000		Acenaphthene	83-32-9	ANAPNI
5.000		Acenaphthylene	208- <del>96</del> -8	
5.000		Anthracene	120-12-7	
25.000		Benzoic acid	65-85-0	
5.000		Benzo(a) anthracene	56-55-3	BAANTI
5.000		Benzo (a) pyrene	50-32-8	
5.000	• • •	Benzo(b) fluoranthene	205-99-2	_
5.000	•••	Benzo[ghi]perylene	191-24-2	
5.000		Benzo[k] fluoranthene	207-08-9	
5.000	•••	Benzyl alcohol	100-51-6	
5.000	• • •	Benzyl butyl phthalate	85-68-7	
5.000		bis(2-Chloroethoxy)methane	111-91-1	
5.000		bis(2-Chloroethyl) ether	111-44-4	
5.000		bis(2-Chloroisopropyl) ether	108-60-1	
5.000	• • •	bis(2-Ethylhexyl) phthalate	117-81-7	
5.000	•••	Chrysene	218-01-9	CHRY
5.000	•••	Di-n-butyl phthalate	84-74-2	
5.000	• • •	Di-n-octyl phthalate	117-84-0	DNOP
5.000	•••	Dibenzofuran	132-64-9	DBZFU
5.000		Dibenz (ah) anthracene	53-70-3	DBAHA
5.000	•••	Diethyl phthalate	84-66-2	DEP
5.000	• • •	Dimethyl phthalate	131-11-3	DMP
5.000	• • •	Fluoranthene	206-44-0	FANT
5.000	•••	Fluorene	86-73-7	FLREN
5.000	• • •	Hexach l orobenzene	118-74-1	
5.000		Hexachlorobutadiene	87-68-3	HCBD
5.000	• • •	Hexachlorocyclopentadiene	77-47-4	CL6CP
5.000		Hexachloroethane	67-72-1	
		Indeno[1,2,3-cd] pyrene		

### EA Laboratories USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: TCL Semivolatiles (2/88) in Soil by GCMS

Method Number....: LM20 Extended Level.: N
Splitting Code....: 02 Maximum Lot Size: 10
Certification Class: 1A Units.....: UGG

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
5.000		Isophorone	78-59-1	1 SOPHE
5.000		N-Nitrosodi-n-propylamine	621-64-7	NNDNP/
5.000		N-Nitrosodiphenylamine	86-30-6	NNDPA
5.000		Naphthalene	91-20-3	NAP
5.000		Nitrobenzene	98-95-3	NB
9.000	100.000	* Nitrobenzene-d5	4164-60-0	NBD5
25.000		Pentachlorophenol	87-86-5	PCP
5.000		Phenanthrene	85-01-8	PHANT
5.000		Phenol	108-95-2	PHENO
8.500	100.000	Phenol-dó	13127-88-3	PHEND
5.000		Pyrene	129-00-0	PYR
13.000	100.000	* Terphenyl-d14	6	TRPD 1

<sup>\*</sup> Certified analyte.

### EA Laboratorio. USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 69/15/92

Description: TCL Semivolatiles (3/90) in Soil by GCMS

Method NumberLM20Extended Level..: NSplitting Code03Maximum Lot Size: 10Certification Class: 1AUnitsUGG

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
2.500		1,2,4-Trichtorobenzene	120-82-1	124TCE
2.500		1,2-Dichtorobenzene	95-50-1	12DCLE
2.500		1,3-Dichlorobenzene	541-73-1	13DCLE
2.500	•••	1,4-Dichlorobenzene	106-46-7	14DCLE
12.000		2,4,5-Trichlorophenol	95-95-4	245TC
2.200	100.000	* 2,4,6-Tribromophenol	118-79-6	246TBI
2.500	•••	2,4,6-Trichlorophenol	88-06-2	246TCI
2.500		2,4-Dichlorophenol	120-83-2	24DCLI
2.500		2,4-Dimethylphenol	105-67-9	24DMPI
12.000		2,4-Dinitrophenol	51-28-5	24DNP
2.500		2,4-Dinitrotoluene	121-14-2	24DNT
2.500		2,6-Dinitrotoluene	606-20-2	26DNT
2.500		2-Chloronaphthalene	91-58-7	2CNAP
2.500		2-Chlorophenol	95-57-8	2CLP
9.600	100.000	* 2-Fluorobiphenyl	321-60-8	2FBP
9.200	100.000	* 2-fluorophenol	367-12-4	2FP
12.000		2-Methyl-4,6-dinitrophenol	534-52-1	460N20
2.500		2-Methylnaphthalene	91-57-6	2MNAP
2.500	•••	2-Methylphenol	95-48-7	2MP
12.000		2-Nitroaniline	88-74-4	2NAN1
2.500		2-Nitrophenol	88-75-5	2NP
2.500	• • •	3.3'-Dichlorobenzidine	91-94-1	33DCB(
12.000		3-Nitroaniline	99-09-2	3NAN1
2.500		4-Bromophenyl phenyl ether	101-55-3	4BRPP
2.500		4-Chloro-3-methylphenol	59-50-7	4CL3C
2.500		4-Chloroaniline	106-47-8	4CANII
2.500		4-Chlorophenyl phenyl ether	7005-72-3	4CLPPI
2.500		4-Methylphenol	106-44-5	4MP
12.000		4-Nitroaniline	100-01-6	4NAN1
12.000		4-Nitrophenol	100-02-7	4NP
2.500		Acenaphthene	83-32-9	ANAPHI
2.500		Acenaphthylene	208-96-8	ANAPYI
2.500		Anthracene	120-12-7	ANTRO
2.500		Benzo (a) anthracene	56-55-3	BAANTI
2.500		Benzo (a) pyrene	50-32-8	BAPYR
2.500		Benzo [b] fluoranthene	205-99-2	BBFAN'
2.500		Benzo[ghi]perylene	191-24-2	BGHIP
2.500		Benzo (k) fluoranthene	207-08-9	BKFAN
2.500		Benzyl butyl phthalate	85-68-7	BBZP
2.500	•••	bis(2-Chloroethoxy)methane	111-91-1	B2CEXI
2.500		bis(2-Chloroethyl) ether	111-44-4	B2CLE!
2.500		bis(2-Chloroisopropyl) ether	108-60-1	B2C1P
2.500		bis(2-Ethylhexyl) phthalate	117-81-7	B2EHP
2.500		Carbazole	86-74-8	CARBA
2.500		Chrysene	218-01-9	CHRY
2.500		Di-n-butyl phthalate	84-74-2	DNBP
2.500		Di-n-octyl phthalate	117-84-0	
2.500		Dibenzofuran	132-64-9	
2.500		Dibenz (ah) anthracene	53-70-3	DBAHA
2.500		Diethyl phthalate	84-66-2	DEP
2.500		Dimethyl phthalate	131-11-3	DMP
2.500		fluoranthene	206-44-0	FANT
2.500		fluorene	86-73-7	FLREN
2.500		Hexachtorobenzene	118-74-1	CL6BZ
2.500	•••	Hexachlorobutadiene	87-68-3	HCBD
2.500	•••	Hexachlorocyclopentadiene	77-47-4	CL6CP
2.500	•••	Hexachlorocyclopentaciene	67-72-1	CLGET
2.500		Indeno[1,2,3-cd]pyrene	193-39-5	ICDPY

### EA LODORATORIOS USATHAMA Deta Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: TCL Semivolatiles (3/90) in Soil by GCMS

Method Number.....: LM20 Extended Level..: N
Splitting Code....: 03 Maximum Lot Size: 10
Certification Class: 1A Units......: UGG

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
2.500		N-Nitrosodi-n-propylamine	621-64-7	NNDNPA
2.500		N-Nitrosodiphenylamine	86-30-6	NNOPA
2.500		Naphthalene	91-20-3	NAP
2.500		Nitrobenzene	98-95-3	NB
9.000	100.000	Nitrobenzene-d5	4164-60-0	NBD5
12.000		Pentachlorophenol	87-86-5	PCP
2.500	•••	Phenanthrene	85-01-8	PHANT
2.500		Phenol	108-95-2	PHENO
8.500	100.000 *	Phenol-d6	13127-88-3	PHEND
2.500		Pyrene	129-00-0	PYR
13.000	100.000 *	Terphenyl-d14	6	TRPD 1

<sup>\*</sup> Certified analyte.

### EA Laboratories USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: Low PPL Volatiles in Soil by GCMS

Method Number....: LM26 Extended Level.: N
Splitting Code...: 01 Maximum Lot Size: 10
Certification Class: 1A Units.....: UGG

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
0.005	•••	1,1,1-Trichloroethane	71-55-6	111TCE
0.005		1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
0.005	• • •	1,1,2-Trichloroethane	79-00-5	112TCE
0.005		1,1-Dichloroethane	75-34-3	11DCLE
0.005	• • •	1,1-Dichloroethene	75-35-4	11DCE
0.010		1,2-Dichlorobenzene	95-50-1	12DCL8
0.005		1,2-Dichloroethane	107-06-2	120CLE
0.021	0.500	* 1,2-Dichloroethane-d4	17060-07-0	120CD4
0.005		1,2-Dichloroethene (total)	540-59-0	12DCE
0.005		1,2-Dichloroprop:	78-87-5	120CLP
0.010	• • •	1,3-Dichl benzei	541- <i>7</i> 3-1	130CLE
0.010		1,4-Dichl enzene	106-46-7	14DCLE
0.010		2-Chloroe vinyl ether	110-75-8	SCLEVE
0.019	0.500	* 4-Bromofluorupenzene	460-00-4	4BFB
0.100		Acrolein	107-02-8	
0.100		Acrylonitrile	107-13-1	ACRYLO
0.005		Benzene	71-43-2	C6H6
0.005		Bromodichloromethane	75-27-4	BRDCLM
0.005		Bromoform	75-25-2	CHBR3
0.005		Bromomethane	74-83-9	
0.005		Carbon tetrachloride	56-23-5	CCL4
0.005		Chlorobenzene	108-90-7	
0.005		Chloroethane	75-00-3	C2H5C
0.005		Chloroform	67-66-3	CHCL3
0.005	• • •	Chloromethane	74-87-3	CH3CL
0.005		cis-1,3-Dichloropropene	10061-01-5	C130C
0.005	•••	Dibromochloromethane	124-48-1	DBRCL
0.005	•••	Ethylbenzene	100-41-4	ETC6H
0.005	• • •	Methylene chloride	75-09-2	CH2CL
0.005		Tetrachloroethene	127-18-4	TCLEE
0.005	• • •	Toluene	108-88-3	MEC6H
0.023	0.500	* Toluene-d8	2037-26-5	MEC6D
0.005	•••	trans-1,3-Dichloropropene	10061-02-6	T130C
0.005		Trichloroethene	79-01-6	TRCLE
0.005	•••	Trichlorofluoromethane	75-69-4	CCL3F
0.010		Vinyl chloride	75-01-4	

<sup>\*</sup> Certified analyte.

### EA Laboratories USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: Low TCL Volatiles (2/88) in Soil by GCMS

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
Limit	Limit		Mraupet.	n ame
0.005	• • •	1,1,1-Trichloroethane	71-55-6	11170
0.005	•••	1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
0.005		1,1,2-Trichloroethane	79-00-5	112TC
0.005	• • •	1,1-Dichloroethane	<i>7</i> 5-34-3	11DCL
0.005		1,1-Dichloroethene	75-35-4	11DCE
0.005		1,2-Dichloroethane	107-06-2	120CL
0.021	0.500	* 1,2-Dichloroethane-d4	17060-07-0	12DCD
0.005		1,2-Dichloroethene (total)	540-59-0	120CE
0.005		1,2-Dichloropropane	<b>7</b> 8-87-5	12DCL
0.010		2-Butanone	78-93-3	MEK
0.010		2-Hexanone	591-78-6	MNBK
0.019	0.500	* 4-Bromofluorobenzene	460-00-4	4BFB
0.010		4-Methyl-2-pentanone	108-10-1	MIBK
0.010		Acetone	67-64-1	ACET
0.005		Benzene	71-43-2	C6H6
0.005		Bromodichloromethane	75-27-4	BRDCL
0.005		Bromoform	75-25-2	CHBR3
0.005		Bromomethane	74-83-9	CH3BR
0.005		Carbon disulfide	75-15-0	CS2
0.005		Carbon tetrachloride	56-23-5	CCL4
0.005		Chlorobenzene	108-90-7	
0.005		Chloroethane	75-00-3	C2H50
0.005		Chloroform	67-66-3	CHCL3
0.005		Chloromethane	74-87-3	CH3CL
0.005		cis-1,3-Dichloropropene	10061-01-5	C1300
0.005	• • •	Dibromochloromethane	124-48-1	DBRCL
0.005	•	Ethylbenzene	100-41-4	ETC6H
0.005	•••	Methylene chloride	75-09-2	CH2CL
0.005		Styrene	100-42-5	STYR
0.005	•••	Tetrachioroethene	127-18-4	TCLEE
0.005		Toluene	108-88-3	MEC6H
0.023	0.500	* Toluene-d8	2037-26-5	MEC60
0.005	•••	trans-1,3-Dichloropropene	10061-02-6	T1300
0.005	•••	Trichloroethene	79-01-6	TRCLE
0.010		Vinyl acetate	108-05-4	CZAVE
0.010	•••	Vinyl chloride	75-01-4	C2H3C
0.005	•••	Xylenes (total)	1330-20-7	

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Low TCL Volatiles (3/90) in Soil by GCMS

Method Number....: LM26 Extended Level.: N
Splitting Code...: 03 Maximum Lot Size: 10
Certification Class: 1A Units.....: UGG

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
0.010		1,1,1-Trichloroethane	71-55-6	111TCE
0.010	•••	1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
0.010		1,1,2-Trichloroethane	79-00-5	112TCE
0.010		1,1-Dichloroethane	75-34-3	11DCLE
0.010		1,1-Dichloroethene	75-35-4	11DCE
0.010		1,2-Dichloroethane	107-06-2	12DCLE
0.021	0.500	* 1,2-Dichloroethane-d4	17060-07-0	120CD4
0.010		1,2-Dichloroethene (total)	540-59-0	12DCE
0.010		1,2-Dichloropropane	78-87-5	12DCLF
0.010		2-Butanone	78-93-3	MEK
0.010		2-Hexanone	591-78-6	MNBK
0.019	0.500	* 4-Bromofiuorobenzene	460-00-4	4BFB
0.010		4-Methyl-2-pentanone	108-10-1	MIBK
0.010		Acetone	67-64-1	ACET
0.010		Benzene	71-43-2	C6H6
0.010		Bromodichloromethane	75-27-4	BRDCLI
0.010		Bromoform	75-25-2	CHBR3
0.010		Bromomethane	74-83-9	CH3BR
0.010		Carbon disulfide	75-15-0	CS2
0.010		Carbon t.crachloride	56-23-5	CCL4
0.010		Chlorobenzene	108-90-7	CLC6H
0.010		Chlorcethane Chlorcethane	75-00-3	C2H5C
0.010		Chloroform	67-66-3	CHCL3
0.010		Chloromethane	74-87-3	CH3CL
0.010		cis-1,3-Dichloropropene	10061-01-5	C13DC
0.010		Dibromochloromethane	124-48-1	DBRCLI
0.010		Ethylbenzene	100-41-4	ETC6H
0.010		Methylene chloride	75-09-2	CH2CL
0.010		Styrene	100-42-5	STYR
0.010		Tetrachloroethene	127-18-4	TCLEE
0.010		Toluene	108-88-3	MEC6H
0.023	0.500	* Toluene-d8	2037-26-5	MEC6D
0.010		trans-1,3-Dichloropropene	10061-02-6	T13DC
0.010	•••	Trichloroethene	79-01-6	TRCLE
0.010	•••	Vinyl chloride	75-01-4	C2H3C
0.010	•••	Xylenes (total)	1330-20-7	TXYLE

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Explosives in Soil by HPLC

Method Number....: LW37 Splitting Code....: 01 Certification Class: 1

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
1.210	10.000	* 1,3,5-Trinitrobenzene	99-35-4	135TNE
0.389		* 1,3-Dinitrobenzene	996-50-1	13DNB
0.924		* 2,4,6-Trinitrotoluene	118-96-7	246TN
0.371		* 2,4-Dinitrotoluene	121-14-2	24DNT
0.815		* 2,6-Dinitrotoluene	606-20-2	26DNT
1.020	20.000		3691-41-0	HMX
0.357	10.000	* Nitrobenzene	989-53-7	NB
1.130	20,000	* RDX	121-82-4	RDX
1.510	30.000	* TETRYL	479-45-8	TETRY

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total Mercury in Water by CVAA

Method Number....: SB17 Extended Level.: N
Splitting Code...: L1 Maximum Lot Size: 40
Certification Class: 1 Units........... UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
0.409	12.000 * Total	Mercury	7439-97-6	HG

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved Mercury in Water by CVAA

Method Number....: S817 Splitting Code....: L2 Certification Class: 1

0.409

Extended Level..: N
Maximum Lot Size: 40
Units.....: UGL

7439-97-6

HG

Rep. Upper Analyte CAS Test Limit Limit Number Name

12.000 \* Dissolved Mercury

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total Mercury in Water by CVAA

Method Number....: SB17 Splitting Code....: T1 Certification Class: 1

Extended Level..: N
Maximum Lot Size: 40
Units.....: UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
0.409	12.000 * Total Mercury		7439-97-6	HG

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved Mercury in Water by CVAA

Method Number....: SB17 Splitting Code....: T2 Certification Class: 1

Extended Level..: N Maximum Lot Size: 40

Units..... UGL

Rep. Limit	Upper Limit	Analyte		est ame
0.409	12.000	* Dissolved Mercury	7439-97-6 NG	

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total Arsenic in Water by GFAA

Method Number....: SD33 Splitting Code....: L1 Certification Class: 1 Extended Level..: N Maximum Lot Size: 40 Units.....: UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
3.730	75.000 * Total Arsenic		7440-38-2	AS

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total Lead in Water by GFAA

Method Number....: SD33 Splitting Code....: L2 Certification Class: 1

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
7.170	100.000 * Total Le	ad	7439-92-1	P8

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total Selenium in Water by GFAA

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
1.750	75.000 * Total S	Gelenium	7782-49-2	SE

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total Thallium in Water by GFAA

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
3.970	50.000 * Total Thalliu	m	7440-28-0	TL

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved Arsenic in Water by GFAA

Method Number....: SD33 Splitting Code....: L5 Certification Class: 1

Extended Level..: N
Maximum Lot Size: 40

Units..... UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
3.730	75.000 * Dis	solved Arsenic	7440-38-2	AS

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved Lead in Water by GFAA

Method Number....: SD33 Splitting Code....: L6 Certification Class: 1 Extended Level..: N Maximum Lot Size: 40 Units............... UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
7.170	100.000 * Dissolved Lead		7439-92-1	PB

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved Selenium in Water by GFAA

Method Number....: SD33 Splitting Code....: L7 Certification Class: 1

Extended Level..: N Maximum Lot Size: 40

Units..... UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
1.750	75.000 * Dissol	ved Selenium	7782-49-2	SE

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved Thallium in Water by GFAA

Method Number....: SD33 Splitting Code....: L8 Certification Class: 1 Extended Level..: N
Maximum Lot Size: 40

Units.....: UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
3.970	50.000 * Dissol	ved Thallium	7440-28-0	TL

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total Arsenic in Water by GFAA

Method Number....: SD33 Splitting Code....: T1 Certification Class: 1 Extended Level..: N Maximum Lot Size: 40 Units.....: UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
3.730	75.000 * Total #	Arsenic	7440-38-2	AS

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved Arsenic in Water by GFAA

Method Number....: SD33 Splitting Code....: T2 Certification Class: 1 Extended Level..: N
Maximum Lot Size: 40
Units.....: UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
3.730	75.000 * Dissol	ved Arsenic	7440-38-2	AS

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total Lead in Water by GFAA

Method Number....: SD33
Splitting Code....: T3
Certification Class: 1

Extended Level..: N Maximum Lot Size: 40

Units..... UGL

Rep. Upper Analyte CAS Test
Limit Limit Number Name

7.170 100.000 \* Total Lead 7439-92-1 PB

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved Lead in Water by GFAA

Method Number....: SD33 Extended Level..: N
Splitting Code....: T4 Maximum Lot Size: 40
Certification Class: 1 Units.....: UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
7.170	100.000 * Dissolved Lead		7439-92-1	РВ

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total Selenium in Water by GFAA

Method Number....: SD33 Splitting Code....: T5 Certification Class: 1

Extended Level..: N Maximum Lot Size: 40

Units...... UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
1.750	75.000 * Total Selenium		7782-49-2	SE

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved Selenium in Water by GFAA

Method Number....: SD33 Splitting Code....: T6 Certification Class: 1

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
1.750	75.000 * Dissol	ved Selenium	7782-49-2	SE

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total Thallium in Water by GFAA

Method Number....: SD33 Splitting Code....: T7 Certification Class: 1

Rep.	Upper	Ar ¬lyte	CAS	Test
Limit	Limit		Number	Name
3.970	50.000 * Total Thalli	um	7440-28-0	TL

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved Thallium in Water by GFAA

Method Number....: SD33 Splitting Code....: T8 Certification Class: 1

Extended Level..: N Maximum Lot Size: 40 Units.....: UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
3.970	50.000 * Dissolve	d Thallium	7440-28-0	TL

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total PPL Metals + Ba in Water by ICP

Method Number....: SS22 Splitting Code....: L1 Certification Class: 1 Extended Level..: N
Maximum Lot Size: 40
Units............ UGL

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
220.000	3000.000	* Total Antimony	· <del>-</del>	SB
504.000	2000.000	* Total Barium		BA
1.450	250.000	* Total Beryllium		BE
7.900	250.000	* Total Cadmium		CD
21.400	2500.000	* Total Chromium		CR
22.000	1000.000	* Total Copper		CU
18.100	1500.000	* Total Nickel		NI
15.300	500.000	* Total Silver		AG
29.300	1000.000	* Total Zinc		ZN

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved PPL Metals + Ba in Water by ICP

Method Number....: SS22 Extended Level.: N
Splitting Code....: L2 Maximum Lot Size: 40
Certification Class: 1 Units......: UGL

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
220.000	3000.000	* Dissolved Antimony		SB
504.000	2000.000	* Dissolved Barium		BA
1.450	250.000	* Dissolved Beryllium		BE
7.900	250.000	* Dissolved Cadmium		CD
21.400	2500.000	* Dissolved Chromium		CR
22.000	1000.000	* Dissolved Copper		CU
18.100	1500.000	* Dissolved Nickel		NI
15.300	500.000	* Dissolved Silver		AG
29.300	1000,000	* Dissolved Zinc		ZN

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Total "A List" Metals in Water by ICP

Method Number....: SS22 Splitting Code....: T1 Certification Class: 1

Rep. Limit	Upper Limit		Analyte . CAS Number	Test Name
138.000	4500.000	* Total	Aluminum	AL
	3000.000			SB
	7500.000			AS
	2000.000		e e · · = · ·	BA
			Beryllium	8E
	5000.000			8
7.900				CD
91.300	5000.000	* Total	Calcium	CA
21.400	2500.000	* Total	Chromium	CR
	5000.000			CO
22.000	1000.000	* Total	Copper	CU
59.700	2500.000	* Total	iron	FE
1450.000	7500.000	* Total	Lead	PB
			Magnes i um	MG
2.770	1000.000	* Total	Manganese	MN
31.200	800.000	* Total	Molybdenum	MO
18.100	1500.000	* Total	Nickel	NI
	7500.000	* Total	Selenium	SE
15.300		* Total	Silver	AG
19.400			Vanadium	V
29.300	1000.000	* Total	Zinc	ZN

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Dissolved "A List" Metals in Water by ICP

Rep. Limit	Upper Limit	Analyte	CAS Test Number Name
138.000	4500.000	* Dissolved Aluminum	AL
220.000	3000.000	* Dissolved Antimony	SB
1020.000	7500.000	* Dissolved Arsenic	AS
504.000	2000.000	* Dissolved Barium	ВА
1.450	250.000	* Dissolved Beryllium	BE
30.200	5000.000	* Dissolved Boron	В
7.900	250.000	* Dissolved Cadmium	CD
91.300	5000.000	* Dissolved Calcium	CA
21.400	2500.000	* Dissolved Chromium	CR
49.200	5000.000	* Dissolved Cobalt	CO
22.000	1000.000	* Dissolved Copper	CU
59.700	2500.000	* Dissolved Iron	FE
1450.000	7500.000	* Dissolved Lead	PB
140.000	25000.00	* Dissolved Magnesium	MG
2.770	1000.000	* Dissolved Manganese	MN
31.200	800.000	* Dissolved Molybdenum	MO
18.100	1500.000	* Dissolved Nickel	NI
		* Dissolved Selenium	SE
15.300	500.000	* Dissolved Silver	AG
19.400	800.000	* Dissolved Vanadium	V
29.300	1000.000	* Dissolved Zinc	ZN

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: High PPL Volatiles in Water by GCMS

Method Number.....: UM19 Extended Level..: N
Splitting Code....: 01 Maximum Lot Size: 10
Certification Class: 1A Units......: UGL

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
1.750	200.000	* 1,1,1-Trichloroethane	71-55-6	111TCE
5.820	200,000	* 1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
5.040	200.000	* 1,1,2-Trichloroethane	79-00-5	112TCE
3.220	200,000	* 1,1-Dichloroethane	75-34-3	11DCLE
3.010	200.000	* 1,1-Dichloroethene	75-35-4	11DCE
10.000		1,2-Dichlorobenzene	95-50-1	12DCLB
3.530	200.000	* 1,2-Dichloroethane	107-06-2	120CLE
2.300	100.000	* 1,2-Dichloroethane-d4	17060-07-0	12DCD4
1.000	200.000	* 1,2-Dichloroethene (total)	540-59-0	12DCE
8.410	200.000	* 1,2-Dichloropropane	78-87-5	12DCLP
10.000		1,3-Dichlorobenzene	541-73-1	13DCLB
10.000		1,4-Dichlorobenzene	106-46-7	14DCLB
10.000		2-Chloroethyl vinyl ether	110-75-8	2CLEVE
2.700	100.000	* 4-Bromofluorobenzene	460-00-4	4BFB
100.000		Acrolein	107-02-8	ACROLN
100.000		Acrylonitrile	107-13-1	ACRYLO
4.320	200.000	* Benzene	71-43-2	C6H6
1.810	200.000	* Bromodichloromethane	75-27-4	BRDCLM
0.948	200.000	* Bromoform	75-25-2	CHBR3
5.000	•	Bromomethane	74-83-9	CH3BR
2.520	200.000	* Carbon tetrachloride	56-23-5	CCL4
2.570	200.000	* Chlorobenzene	108-90-7	CLC6H5
5.000		Chloroethane	75-00-3	
1.270	200.000	* Chloroform	67-66-3	CHCL3
5.000	• • •	Chloromethane	74-87-3	CH3CL
5.000		cis-1,3-Dichloropropene	10061-01-5	C13DCP
9.240		* Dibromochloromethane	124-48-1	DBRCLM
1.720	200.000	* Ethylbenzene	100-41-4	ETC6H5
5.000		Methylene chloride	75-09-2	CHSCFS
1.000	200.000	* Tetrachioroethene	127-18-4	TCLEE
1.360	200.000		108-88-3	MEC6H5
2.800	100.000	* Toluene-d8	2037-26-5	MEC6D8
5.000		trans-1,3-Dichloropropene	10061-02-6	T13DCP
1.450	200.000	Trichloroethene	79-01-6	TRCLE
2.450	200.000	* Trichlorofluoromethane	75-69-4	CCL3F
6.670	200.000	* Vinyl chloride	75-01-4	C2H3CL

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: High TCL Volatiles (2/88) in Water by GCMS

Method Number.....: UM19 Extended Level..: N
Splitting Code....: 02 Maximum Lot Size: 10
Certification Class: 1A Units......: UGL

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
1.750	200.000	1,1,1-Trichloroethane	71-55-6	111TCE
5.820	200.000 1	1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
5.040		1,1,2-Trichloroethane	79-00-5	112TCE
3.220		1,1-Dichloroethane	75-34 <b>-3</b>	11DCLE
3.010		1,1-Dichloroethene	75-35-4	11DCE
3.530		1,2-Dichloroethane	107-06-2	12DCLE
2.300	100.000 1	1,2-Dichloroethane-d4	17060-07-0	12DC04
1.000	200.000	1,2-Dichloroethene (total)	540-59-0	12DCE
8.410	200.000 1	1,2-Dichloropropane	78-87-5	12DCLP
10.000		2-Butanone	78-93-3	MEK
10.000		2-Hexanone	591-78-6	MNBK
2.700	100.000	4-Bromofluorobenzene	460-00-4	4BFB
10.000		4-Methyl-2-pentanone	108-10-1	MIBK
10.000		Acetone	67-64-1	ACET
4.320	200.000	Benzene	71-43-2	C6H6
1.810	200.000	Bromodichloromethane	75-27-4	BRDCLM
0.948	200.000 *	Bromoform	75-25-2	CHBR3
5.000		Bromomethane	74-83-9	CH3BR
5.000		Carbon disulfide	75-15-0	CS2
2.520	200.000 *	Carbon tetrachloride	56-23-5	CCL4
2.570	200.000 *	Chlorobenzene	108-90-7	CLC6H5
5.000		Chloroethane	75-00-3	
1.270	200.000 *	Chloroform	67-66-3	CHCL3
5.000		Chloromethane	74-87-3	CH3CL
5.000		cis-1,3-Dichloropropene	10061-07-5	
9.240	200.000 *	Dibromochloromethane	124-48-1	DBRCLM
1.720		Ethylbenzene	100-41-4	
5.000	••-	Methylene chloride	75-09-2	
5.000		Styrene	100-42-5	STYR
1.000	200.000 *	Tetrachloroethene	127-18-4	TCLEE
1.360	200.000 *		108-88-3	
2.800		Toluene-d8	2037-26-5	
5.000	•••	trans-1,3-Dichloropropene	10061-02-6	T13DCP
1.450	200,000 *	Trichloroethene	79-01-6	TRCLE
10.000		Vinyl acetate	108-05-4	
6.670		Vinyl chloride	75-01-4	
5.000		Xylenes (total)	1330-20-7	

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: High TCL Volatiles (3/90) in Water by GCMS

Method Number....: UM19 Extended Level.: N
Splitting Code...: 03 Maximum Lot Size: 10
Certification Class: 1A Units.....: UGL

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
1.750	200.000	* 1,1,1-Trichloroethane	71-55-6	111TCE
5.820	200.000	1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
5.040	200.000	* 1,1,2-Trichloroethane	79-00-5	112TCE
3.220	200.000	* 1,1-Dichloroethane	75-34-3	11DCLE
3.010	200.000	* 1,1-Dichloroethene	75-35-4	11DCE
3.530	200.000	* 1,2-Dichloroethane	107-06-2	12DCLE
2.300	100.000	* 1,2-Dichloroethane-d4	17060-07-0	12DC04
1.000		* 1,2-Dichloroethene (total)	540-59-0	12DCE
8.410	200.000	* 1,2-Dichloropropane	78-87-5	
10.000		2-Butanone	78-93-3	MEK
10.000		2-Hexanone	591-78-6	MNBK
2.700	100.000	* 4-Bromofluorobenzene	460-00-4	4BFB
10.000		4-Methyl-2-pentanone	108-10-1	MIBK
10.000		Acetone .	67-64-1	
4.320	200.000	* Benzene	71-43-2	
1.810	200.000	* Bromodichloromethane	75-27-4	BRDCLM
0.948	200.000	* Bromoform	75-25-2	CHBR3
10.000		Bromomethane	74-83-9	CH3BR
10.000	•••	Carbon disulfide	75-15-0	CS2
2.520	200.000	* Carbon tetrachloride	56-23-5	CCL4
2.570	200.000	* Chlorobenzene	108-90-7	CLC6H5
10.000		Chloroethane	75-00-3	C2H5CL
1.270	200.000	* Chloroform	67-66-3	CHCL3
10.000		Chloromethane	74-87-3	CH3CL
10.000		cis-1,3-Dichloropropene	10061-01-5	C13DCP
9.240	200.000 1	Dibromochloromethane	124-48-1	DBRCLM
1.720	200.000	* Ethylbenzene	100-41-4	ETC6H5
10.000		Methylene chloride	75-09-2	CH2CL2
10.000		Styrene	100-42-5	STYR
1.000	200.000	* Tetrachloroethene	127-18-4	TCLEE
1.360	200.000	* Toluene	108-88-3	MEC6H5
2.800	100.000	* Toluene-d8	2037-26-5	MEC6D8
10.000		trans-1,3-Dichloropropene	10061-02-6	T13DCP
1.450	200.000	Trichloroethene	79-01-6	TRCLE
6.670	200.000	Vinyl chloride	75-01-4	C2H3CL
10.000		Xylenes (total)	1330-20-7	TXYLEN

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: PPL Semivolatiles in Water by GCMS

Method Number....: UM24 Splitting Code....: 01 Certification Class: 1A

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
10.000	•••	1,2,4-Trichlorobenzene	120-82-1	124TCB
10.000	• • •	1,2-Dichlorobenzene	95-50-1	12DCLB
10.000		1,3-Dichlorobenzene	541-73-1	13DCLB
10.000		1,4-Dichlorobenzene	106-46-7	14DCLB
39.000		2,4,6-Tribromophenol	118-79-6	246TBP
10.000		2,4,6-Trichlorophenol	88-06-2	246TCP
10.000		2,4-Dichlorophenol	120-83-2	24DCLP
10.000		2,4-Dimethylphenol	105-67-9	24DMPN
50.000		2,4-Dinitrophenol	51-28-5	24DNP
10.000		2,4-Dinitrotoluene 2,6-Dinitrotoluene	121-14-2 606-20-2	24DNT 26DNT
10.000		2-Chloronaphthalene	91-58-7	2CNAP
10.000	•••	2-Chtorophenot	95-57-8	2CLP
22.000		2-Fluorobiphenyl	321-60-8	2FBP
33.000		2-fluorophenol	367-12-4	2FP
50.000		2-Methyl-4,6-dinitrophenol	534-52-1	46DN2C
10.000		2-Nitrophenol	88-75-5	2NP
20.000		3,3'-Dichlorobenzidine	91-94-1	33DCBD
10.000		4-Bromophenyl phenyl ether	101-55-3	4BRPPE
10.000		4-Chloro-3-methylphenol	59-50-7	4CL3C
10.000		4-Chlorophenyl phenyl ether	7005-72-3	4CLPPE
50.000		4-Nitrophenol	100-02-7	4NP
10.000		Acenaphthene	83-32-9	ANAPNE
10.000		Acenaphthylene	208-96-8	ANAPYL
10.000		Anthracene	120-12-7	ANTRC
100.000		Benzidine	92-87-5	BENZID
10.000		Benzo (a) anthracene	56-55-3	BAANTR
10.000		Benzo(a) pyrene	50-32-8	BAPYR
10.000		Benzo[b] fluoranthene	205-99-2	BBFANT
10.000		Benzo(ghi)perylene	191-24-2	BGHIPY
10.000		Benzo(k) fluoranthene	207-08-9	BKFANT
10.000		Benzyl butyl phthalate	85-68-7	8BZP
10.000		bis(2-Chloroethoxy)methane	111-91-1	BZCEXM
10.000	•••	bis(2-Chloroethyl) ether	111-44-4	BSCLEE
10.000	•••	bis(2-Chloroisopropyl) ether	108-60-1	BZCIPE
10.000	•••	bis(2-Ethylhexyl) phthalate	117-81-7	BZEHP
10.000	•••	Chrysene	218-01-9 84-74-2	CHRY
10.000	•••	Di-n-butyl phthalate	117-84-0	DNBP DNOP
10.000	•••	Di-n-octyl phthalate Dibenz(ah)anthracene	53-70-3	DBAHA
10.000		Diethyl phthalate	84-66-2	DEP
10.000		Dimethyl phthalate	131-11-3	DMP
10.000		Fluoranthene	206-44-0	FANT
10.000		Fluorene	86-73-7	FLRENE
10.000		Hexachlorobenzene	118-74-1	CL6BZ
10.000		Hexachlorobutadiene	87-68-3	HCBD
10.000		Hexachlorocyclopentadiene	77-47-4	CL6CP
10.000		Hexachloroethane	67-72-1	CL6ET
10.000		Indeno[1,2,3-cd]pyrene	193-39-5	ICDPYR
10.000	• • •	Isophorone	78-59-1	ISOPHR
10.000		N-Nitrosodi-n-propylamine	621-64-7	NNDNPA
10.000	• • •	N-Nitrosodimethylamine	62-75-9	NNDMEA
10.000		N-Nitrosodiphenylamine	86-30-6	NNDPA
10.000		Naphthalene	91-20-3	NAP
10.000		Nitrobenzene	98-95-3	N8
19.000	300.000 *	Nitrobenzene-d5	4164-60-0	NBD5
50.000		Pentachlorophenol	87-86-5	PCP
10.000		Phenanthrene	85-01-8	PHANTR
10.000	• • •	Phenol	108-95-2	PHENOL

Print Date: 09/15/92

Description: PPL Semivolatiles in Water by GCMS

Method Number....: UM24 Extended Level.: N
Splitting Code...: 01 Maximum Lot Size: 10
Certification Class: 1A Units.....: UGL

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
35.000	300.000	Phenol-d6	13127-88-3	PHEND6
10.000		Pyrene	129-00-0	PYR
32.000	300.000	Terphenyl-d14	6	TRPD14

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: TCL Semivolatiles (2/88) in Water by GCMS

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
10.000		1,2,4-Trichlorobenzene	120-82-1	124TC
10.000		1,2-Dichlorobenzene	95-50-1	12DCLI
10.000		1,3-Dichlorobenzene	541 <i>-7</i> 3 <i>-</i> 1	13DCL
10.000		1,4-Dichlorobenzene	106-46-7	14DCL
50.000		2,4,5-Trichlorophenol	95-95-4	245TC
39.000	300.000	* 2,4,6-Tribromophenal	118-79-6	246TB
10.000		2,4,6-Trichlorophenol	88-06-2	246TC
10.000		2,4-Dichlorophenol	120-83-2	24DCL
10.000		2.4-Dimethylphenol	105-67-9	24DMP
50.000		2,4-Dinitrophenol	51-28-5	24DNP
10.000		2,4-Dinitrotoluene	121-14-2	24DNT
10.000		2.6-Dinitrotoluene	606-20-2	26DNT
10.000		2-Chloronaphthalene	91-58-7	2CNAP
10.000		2-Chlorophenol	95-57-8	2CLP
22.000		2-Fluorobiphenyl	321-60-8	2FBP
33.000		* 2-Fluorophenol	367-12-4	2FP
50.000		2-Methyl-4,6-dinitrophenal	534-52-1	46DN2
10.000	•••		91-57-6	2MNAP
		2-Methylnaphthalene	95-48-7	
10.000		2-Methylphenol		2MP
50.000		2-Nitroaniline	88-74-4	ZNANI
10.000		2-Nitrophenol	88-75-5	2NP
20.000		3,31-Dichlorobenzidine	91-94-1	33DCB
50.000		3-Nitroaniline	99-09-2	3HAN I
10.000	•	4-Bromophenyl phenyl ether	101-55-3	4BRPP
10.000	• • •	4-Chloro-3-methylphenol	59-50-7	4CL3C
10.000		4-Chloroaniline	106-47-8	4CAN1
10.000		4-Chlorophenyl phenyl ether	7005-72-3	4CLPP
10.000		4-Methylphenol	106-44-5	4MP
50.000	•••	4-Nitroaniline	100-01-6	4NAN1
50.000		4-Nitrophenol	100-02-7	4NP
10.000		Acenaphthene	83-32-9	ANAPN
10.000		Acenaphthylene	208-96-8	ANAPY
10.000		Anthracene	120-12-7	ANTRO
50.000		Benzoic acid	65-85-0	BENZO
10.000		Benzo[a] anthracene	56-55-3	BAANT
10.000	•••	Benzo[a] pyrene	50-32-8	BAPYR
10.000		Benzo[b] fluoranthene	205-99-2	BBFAN
	•••			
10.000	•••	Benzo(ghi) perylene	191-24-2	BGHIP
10.000		Benzo[k] fluoranthene	207-08-9	BKFAN
10.000		Benzyl alcohol	100-51-6	BZALC
10.000		Benzyl butyl phthalate	85-68-7	BBZP
10.000		bis(2-Chloroethoxy)methane	111-91-1	B2CEX
10.000		bis(2-Chloroethyl) ether	111-44-4	BSCLE
10.000		bis(2-Chloroisopropyl) ether	108-60-1	B2C1P
10.000		bis(2-Ethylhexyl) phthalate	117-81-7	B2EHP
10.000	• • •	Chrysene	218-01-9	CHRY
10.000		Di-n-butyl phthalate .	84-74-2	DNBP
10.000		Di-n-octyl phthalate	117-84-0	DNOP
10.000		Dibenzofuran	132-64-9	DBZFU
10.000		Dibenz (ah) anthracene	53-70-3	DBAHA
10.000		Diethyl phthalate	84-66-2	
10.000		Dimethyl phthalate	131-11-3	DMP
10.000		Fluoranthene	206-44-0	FANT
10.000	• • •	fluorene	86.73.7	FLREN
10.000		Hexachiorobenzene	118-74-1	CL6BZ
10.000	•••	Hexachlorobutadiene	87-68-3	HCBD
	•••		·	
10.000 10.000	•••	Hexachlorocyclopentadiene Hexachloroethane	77-47-4 67-72-1	CL6CP

Print Date: 09/15/92

Description: TCL Semivolatiles (2/88) in Water by GCMS

Method Number....: UM24 Extended Level..: N
Splitting Code....: 02 Maximum Lot Size: 10
Certification Class: 1A Units.....: UGL

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
10.000		Isophorone	78-59-1	1 SOPH
10.000		N-Nitrosodi-n-propylamine	621-64-7	NNDNP
10.000		N-Nitrosodiphenylamine	86-30-6	NNDPA
10.000		Naphthalene	91-20-3	NAP
10.000		Nitrobenzene	98-95-3	NB
19.000	300.000	* Nitrobenzene-d5	4164-60-0	NBD5
50.000		Pentachlorophenol	87 <b>-8</b> 6-5	PCP
10.000		Phenanthrene	85-01 <b>-</b> 8	PHANT
10.000		Phenol	108-95-2	PHENO
35.000	300.000	* Phenol-dó	13127-88- <b>3</b>	PHEND
10.000		Pyrene	129-00-0	PYR
32.000	300,000	* Terphenyl-d14	6	TRPD1

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: TCL Semivolatiles (3/90) in Water by GCMS

Method Number.....: UM24Extended Level..: NSplirting Code....: 03Maximum Lot Size: 10Certification Class: 1AUnits...........: UGL

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
10.000	•••	1,2,4-Trichlorobenzene	120-82-1	124TC
10.000		1,2-Dichlorobenzene	95-50-1	120CL
10.000		1,3-Dichlorobenzene	541-73-1	13DCL
10.000		1,4-Dichlorobenzene	106-46-7	14DCL
50.000		2,4,5-Trichtorophenol	95-95-4	245TC
39.000		* 2,4,6-Tribromophenol	118-79-6	246TB
10.000		2,4,6-Trichlorophenol	88-06-2	246TC
10.000		2,4-Dichlorophenol	120-83-2	
10.000		2,4-Dimethylphenol	105-67-9	24DMP
50.000		2,4-Dinitrophenol	51-28-5	24DNP
10.000		2,4-Dinitrotoluene	121-14-2	
10.000		2,6-Dinitrotoluene	606-20-2	
10.000		2-Chloronaphthalene	91-58-7	2CNAP
10.000		2-Chlorophenol	95-57-8	2CLP
22.000		* 2-fluorobiphenyl	321-60-8	2FBP
33.000		* 2-Fluorophenol	367-12-4	2FP
50.000		2-Methyl-4,6-dinitrophenol	534-52-1	46DN2
10.000		2-Methylnaphthalene	91-57-6	2MNAP
10.000		2-Methylphenol	95-48-7	2MP
50.000		2-Nitroaniline	88-74-4	2NAN1
10.000		2-Nitrophenol	88-75-5	2NP
10.000		3,31-Dichlorobenzidine	91-94-1	33DCB
50.000	• • •	3-Nitroaniline	99-09-2	3NAN I
10.000	• • •	4-Bromophenyl phenyl ether	101-55-3	4BRPP
10.000	- • •	4-Chloro-3-methylphenol	59-50-7	4CL3C
10.000		4-Chloroaniline	106-47-8	4CANI
10.000	•••	4-Chlorophenyl phenyl ether	7005-72-3	4CLPP
10.000		4-Methylphenol	106-44-5	4MP
50.000		4-Nitroaniline	100-01-6	4NAN1
50.000		4-Nitrophenol	100-02-7	4NP
10.000	•••	Acenaphthene	83-32-9	ANAPN
10.000		Acenaphthylene	208-96-8	ANAPY
10.000	• • •	Anthracene	120-12-7	ANTRO
10.000		Benzo (a) anthracene	56-55-3	BAANT
10.000		Benzo [a] pyrene	50-32-8	BAPYR
10.000	• • •	Benzo (b) fluoranthene	205-99-2	BBFAN
10.000		Benzo (ghi) perylene	191-24-2	BGHIP
10.000		Benzo(k) fluoranthene	207-08-9	BKFAN
10.000		Benzyl butyl phthalate	85-68-7	BBZP
10.000	• • •	bis(2-Chloroethoxy)methane	111-91-1	BZCEX
10.000		bis(2-Chloroethyl) ether	111-44-4	BZCLE
10.000		bis(2-Chloroisopropyl) ether	108-60-1	BZCIP
10.000	•••	bis(2-Ethylhexyl) phthalate	117-81-7	B2EHP
10.000		Carbazole	86-74-8	CARBA
10.000	•••	Chrysene	218-01-9	CHRY
10.000		Di-n-butyl phthalate	84-74-2	DNBP
10.000		Di-n-octyl phthalate	117-84-0	DNOP
10.000	•••	Dibenzofuran	132-64-9	DBZFU
10.000	• • •	Dibenz (ah) anthracene	53-70-3	
10.000		Diethyl phthalate	84-66-2	
10.000		Dimethyl phthalate	131-11-3	DMP
10.000		Fluoranthene	206-44-0	FANT
10.000	• • •	fluorene	86-73-7	FLREN
10.000	• • •	Hexach Lorobenzene	. 118-74-1	CL 6BZ
10.000		Hexachlorobutadiene	87-68-3	HCBD
10.000		hexachlorocyclopentadiene	77-47-4	CL 6CP
10.000		Hexachloroethane	67-72-1	CL6ET
10.000		Indeno[1,2,3-cd]pyrene	193-39-5	ICDPY
10.000		isophorone	78-59-1	ISOPH

Print Date: 09/15/92

Description: TCL Semivolatiles (3/90) in Water by GCMS

Method Number....: UM24 Splitting Code....: 03 Certification Class: 1A Extended Level..: N Maximum Lot Size: 10 Units............. UGL

Rep. Limit	Upper Limit	Analyte	CAS Number	Test Name
10.000		N-Nitrosodi-n-propylamine	621-64-7	NNDNPA
10.000		N-Nitrosodiphenylamine	86-30-6	NNDPA
10.000		Naphthalene	91-20-3	NAP
10.000		Nitrobenzene	98-95-3	NB
19.000	300.000	Nitrobenzene-d5	4164-60-0	NBD5
50.000		Pentachlorophenol	87-86-5	PCP
10.000		Phenanthrene	85-01-8	PHANTE
10.000		Phenol	108-95-2	PHENO
35.000	300.000	Phenol-d6	13127-88-3	PHEND
10.000		Pyrene	129-00-0	PYR
32.000	300.000 4	Terphenyl-d14	6	TRPD1

<sup>\*</sup> Certified analyte.

Print Date: 09/15/92

Description: Low PPL Volatiles in Water by GCMS

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
1.750	•••	1,1,1-Trichloroethane	71-55-6	111TCE
1.920	20.000	* 1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
5.040	• • •	1,1,2-Trichloroethane	79-00-5	112TCE
3.220		1,1-Dichloroethane	75-34 <i>-</i> 3	11DCLE
3.010		1,1-Dichloroethene	75-35-4	11DCE
10.000		1,2-Dichlorobenzene	95-50-1	120CL8
3.530		1,2-Dichloroethane	107-06-2	12DCLE
2.300	100.000	* 1,2-Dichloroethane-d4	17060-07-0	12DCD4
5.000	•••	1,2-Dichloroethene (total)	540-59-0	12DCE
0.466	20.000	* 1,2-Dichloropropane	78-87-5	12DCLP
10.000		1,3-Dichlorobenzene	541-73-1	13DCLB
10.000		1,4-Dichlorobenzene	106-46-7	14DCLB
10.000	•••	2-Chloroethyl vinyl ether	110-75-8	<b>2CLEVE</b>
2.700	100.000	* 4-Bromofluorobenzene	460-00-4	4BFB
100.000		Acrolein	107-02-8	ACROLN
100.000		Acrylonitrile	107-13-1	ACRYLO
4.320	• • •	Benzene	71-43-2	C6H6
1.810		Bromodichloromethane	75-27-4	BRDCLM
0.948		Bromoform	75-25-2	CHBR3
5.000		Bromomethane	74-83-9	CH3BR
2.520		Carbon tetrachloride	56-23-5	CCL4
2.570		Chlorobenzene	108-90-7	CLC6H5
5.000		Chloroethane	75-00-3	C2H5CL
1.000	50.000	* Chloroform	67-66-3	CHCL3
5.000		Chloromethane	74-87-3	CH3CL
5.000		cis-1,3-Dichloropropene	10061-01-5	C13DCP
0.400	20.000	* Dibromochloromethane	124-48-1	DBRCLM
1.720		Ethylbenzene	100-41-4	ETC6H5
5.000		Methylene chloride	75-09-2	CH2CL2
0.640	20.000	* Tetrachloroethene	127-18-4	TCLEE
1.360		Toluene	108-88-3	MEC6H5
2.800	100.000	* Toluene-d8	2037-26-5	MEC6D8
5.000		trans-1,3-Dichloropropene	10061-02-6	T13DCP
1.450		Trichloroethene	79-01-6	TRCLE
2.450		Trichlorofluoromethane	75-69-4	CCL3F
6.670		Vinyl chloride	75-01-4	

<sup>\*</sup> Certified analyte.

#### EA Laboratories USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: Low TCL Volatiles (2/88) in Water by GCMS

Method Number.....: UM26 Extended Level..: N
Splitting Code....: 02 Maximum Lot Size: 10
Certification Class: 1A Units........... UGL

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
1.750		1,1,1-Trichloroethane	71-55-6	111TCE
1.920	20.000	* 1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
5.040		1,1,2-Trichloroethane	79-00-5	112TCE
3.220		1,1-Dichloroethane	75-34-3	11DCLE
3.010		1,1-Dichloroethene	75-35-4	11DCE
3.530		1,2-Dichloroethane	107-06-2	12DCLE
2.300	100.000	* 1,2-Dichloroethane-d4	17060-07-0	12DCD4
5.000	• • •	1,2-Dichloroethene (total)	540-59-0	12DCE
0.466	20.000	* 1,2-Dichloropropane	78-87-5	12DCLP
10.000		2-Butanone	78-93-3	MEK
0.000		2-Hexanone	591-78-6	MNBK
2.700	100.000	* 4-Bromofluorobenzene	460-00-4	4BFB
0.000		4-Methyl-2-pentanone	108-10-1	MIBK
0.000		Acetone	67-64-1	ACET
4.320		Benzene	71-43-2	C6H6
1.810		Bromodichloromethane	75-27-4	BRDCLM
0.948		Bromoform	75-25-2	CHBR3
5.000		Bromomethane	74-83-9	CH3BR
0.000		Carbon disulfide	75-15-0	CS2
2.520		Carbon tetrachloride	56-23-5	CCL4
2.570		Chlorobenzene	108-90-7	CLC6H5
5.000		Chloroethane	75-00-3	C2H5CL
1.000	50.000	* Chloroform	67-66-3	CHCL3
5.000		Chloromethane	74-87-3	CH3CL
5.000		cis-1,3-Dichloropropene	10061-01-5	C13DCP
0.400	20.000	* Dibromochloromethane	124-48-1	DBRCLM
1.720		Ethylbenzene	100-41-4	ETC6H5
5.000		Methylene chloride	75-09-2	CH2CL2
5.000		Styrene	100-42-5	STYR
0.640	20.000	* Tetrachloroethene	127-18-4	TCLEE
1.360		Toluene	108-88-3	
2.800	100.000	* Toluene-d8	2037-26-5	MEC6D8
5.000	•••	trans-1,3-Dichloropropene	10061-02-6	T13DCP
1.450	•••	Trichloroethene	79-01-6	TRCLE
10.000		Vinyl acetate		
6.670		Vinyl chloride	75-01-4	
5.000		Xylenes (total)	1330-20-7	

<sup>\*</sup> Certified analyte.

#### EA Laboratories USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: Low TCL Volatiles (3/90) in Water by GCMS

Rep.	Upper	Analyte	CAS	Test
Limit	Limit		Number	Name
10.000		1,1,1-Trichloroethane	71-55-6	111TCE
1.920	20.000	* 1,1,2,2-Tetrachloroethane	79-34-5	TCLEA
10.000		1,1,2-Trichloroethane	79-00-5	112TCE
10.000		1,1-Dichloroethane	75-34-3	11DCLE
10.000		1,1-Dichloroethene	75-35-4	11DCE
10.000		1,2-Dichloroethane	107-06-2	12DCLE
2.300	100.000	* 1,2-Dichloroethane-d4	17060-07-0	12DC04
10.000		1,2-Dichloroethene (total)	540-59-0	12DCE
0.466	20.000	* 1,2-Dichloropropane	78-87-5	12DCLP
10.000		2-Butanone	78-93-3	MEK
10.000		2-Hexanone	591-78-6	MNBK
2.700	100.000	* 4-Bromofluorobenzene	460-00-4	4BFB
10.000		4-Methyl-2-pentanone	108-10-1	MIBK
10.000		Acetone	· 67-64-1	ACET
10.000		Benzene	71-43-2	C6H6
10.000		Bromodichloromethane	75-27-4	BRDCLM
10.000		Bromoform	75-25-2	CHBR3
10.000		Bromomethane	74 <i>-</i> 83-9	CH3BR
10.000		Carbon disulfide	75-15-0	CS2
10.000		Carbon tetrachloride	56-23-5	CCL4
10.000		Chlorobenzene	108-90-7	CLC6H5
10.000		Chloroethane	75-00-3	C2H5CL
1.000	50.000	* Chloroform	67-66-3	CHCL3
10.000		Chloromethane	74-87-3	CH3CL
10.000		cis-1,3-Dichloropropene	10061-01-5	C13DCP
0.400	20.000	* Dibromochloromethane	124-48-1	DBRCLM
10.000		Ethylbenzene	100-41-4	ETC6H5
10.000		Methylene chloride	75-09-2	CH2CL2
10.000		Styrene	100-42-5	STYR
0.640	20.000	* Tetrachloroethene	127-18-4	TCLEE
10.000		Toluene	108-88-3	MEC6HS
2.800	100.000	* Toluene-d8	2037-26-5	MEC6D8
10.000		trans-1,3-Dichloropropene	10061-02-6	T13DCP
10.000		Trichloroethene	79-01-6	TRCLE
10.000		Vinyl chloride	75-01-4	C2H3CL
10.000	• • •	Xylenes (total)	1330-20-7	TXYLEN

<sup>\*</sup> Certified analyte.

#### EA Laboratories USATHAMA Data Entry System ANALYTE LIST BY METHOD

Print Date: 09/15/92

Description: Explosives in Water by HPLC

Method Number....: UW43 Splitting Code....: 01 Certification Class: 1

Rep. Upper Limit Limit		Analyte	CAS Number	Test Name
0.860	5,000	* 1,3,5-Trinitrobenzene	99-35-4	135TNB
0.621		* 1,3-Dinitrobenzene	996-50-1	13DNB
1.270		* 2,4,6-Trinitrotoluene	118-96-7	246TNT
0.425		* 2,4-Dinitrotoluene	121-14-2	24DNT
1.220		* 2,6-Dinitrotoluene	606-20-2	260NT
1.130	10,000	•	3691-41-0	HMX
0.448	5.000	* Nitrobenzene	989-53-7	NB
1.660	10.000		121-82-4	RDX
1.880		* TETRYL	479-45-8	TETRYL

<sup>\*</sup> Certified analyte.

# Appendix L.3 Laboratory Quality Control Data

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#### Appendix L.3

#### **Assessment of Quality Control Sample Results**

The purpose of this appendix is to present the Quality Control (QC) sample results and to discuss the impact upon the associated field sample results. ABB-ES used the results from blank analyses to determine which target compounds represented potential laboratory or field-introduced contamination. Based on the presence of target analytes in trip and method blanks, the interpretation of environmental samples, and the documented historical use of chemicals at BAAP, some reported analytes were not considered site-related. Table L.3-1 summarizes the contaminants detected in QC samples during the BAAP RI, and is followed by complete QC sample results from the USATHAMA IRDMIS. In the following paragraphs, the evaluations of soil and water method blanks are discussed separately.

The data tables and appendices in this report were not adjusted to account for reported blank contamination. In some instances, target analytes are present in samples and associated blanks, and are not considered to be site related. These analytes are not discussed as site contaminants in site-specific contamination assessments.

#### Soil Blanks

<u>Inorganics</u>. The elements CR, PB, FE and ZN were the most frequently detected elements in soil method blanks (Table L.3-1). The elements AL, BA, CA, MG, MN, and V were also detected, but at a lower frequency. Concentrations of all these elements generally fell within, or close, to background ranges for soils at BAAP. Therefore, the background concentrations presented in Section 2.0 of the RI Report were used to determine if reported inorganics were evaluated as site-related contaminants.

<u>Volatiles</u>. The primary VOC blank contaminants detected in the soil method blanks were 11DCE, CH2CL2, CHCL3, MEK. These contaminants were detected in soil blanks associated with subsurface soil samples from the Propellant Burning Ground and Deterrent Burning Ground. 11DCE and CHCL3 were not detected in the samples, and CH2CL2 and MEK were detected in samples at concentrations equivalent to those detected in the method blanks. Therefore, these compounds are not considered in the subsurface soil contamination assessments for these sites (see RI Report Sections 6.0 and 7.0).

<u>Semivolatiles</u>. The SVOCs detected in the soil method blanks include B2EHP, BAANTR, and CHRY. B2EHP is a common laboratory contaminant and concentrations reported in

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samples which fall at similar concentrations to blanks are not considered to be site related. BAANTR and CHRY are not typical laboratory contaminants. These compounds represent contaminants at some sites, but are not considered in other site-specific contamination assessments.

#### Water Blanks

<u>Inorganics</u>. CR detected during the Round One groundwater sampling effort is attributed to laboratory practices. This is based not only on spatial and temporal variability of the CR data but also on the presence of CR in method blank samples and higher average standard-matrix spike recovery in Round One data.

During Round One CR was detected in the majority of groundwater samples at BAAP. This includes monitoring wells (where sampling apparatus were used) as well as domestic and production wells (where no sampling apparatus was used), background wells, as well as on site and downgradient wells, and bedrock wells, as well as shallow and deep overburden wells. During Round Two CR was detected infrequently in a limited number of wells. It is unlikely that such broad changes in CR concentrations reflect actual conditions within the aquifer.

The only inorganic detected in water method blanks was CR. CR was detected in the method blank associated with lot MEI, which consisted of Round One groundwater samples from 17 wells in the Propellant Burning Ground, Landfill 1, and the Settling Ponds and Spoils Disposal Area (Table L.3-1). Review of QC data from Rounds One and Two indicate a higher average standard-matrix spike recovery for Round One than Round Two metals lots. Table L.3-2 presents a summary of low concentration CR spikes and recoveries from Round One. The spike recoveries in lots MEI and MEK could be attributed to low concentrations of laboratory introduced contamination. However, these lots were found to be acceptable by the Technical Support Division of USATHAMA. USATHAMA did indicate that in lot MEI several analytes had recoveries above control limits, and in lot MEK chromium recoveries were out of control.

The majority of Round One CR concentrations reported in groundwater samples were within the range of twice the detection limit  $(4.47 \ \mu g/\ell)$ . This is a trend that would be expected if low concentrations of laboratory contamination had occurred. For the above reasons, the detection of CR in most Round One groundwater samples has been attributed to laboratory practices.

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Volatiles. CH2CL2 was detected in nearly every method blank and the majority of trip blanks associated with groundwater samples (Table L.3-1). CH2CL2 is a common laboratory contaminant and has not been detected during historical groundwater monitoring Therefore, CH2CL2 is not considered a contaminant in site-specific contamination assessments. ACET, CHCL3, MNBK, and TCLEE were detected in several laboratory blanks. ACET is a common laboratory contaminant and has not been detected during historical groundwater monitoring at BAAP; therefore it is not considered a contaminant in site-specific contamination assessments. CHCL3 is considered to be a groundwater contaminant only in the areas of the Propellant Burning Ground, Landfill 1. and the Settling Ponds and Spoils Disposal Area. CHCL3 was not detected in laboratory blanks associated with groundwater samples from these areas. However, CHCL3 results for groundwater at other sites are evaluated with consideration that CHCL3 may be attributed to laboratory contamination. MNBK and TCLEE were detected in relatively few method blanks associated with groundwater samples (Table L.3-1). These compounds are not likely to be related to BAAP because they do not show any spatial pattern and are related to sporadic blank contamination.

<u>Semivolatiles</u>. No SVOCs were detected in laboratory method blanks associated with groundwater sample analyses.

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S1129 R1 BGM-91-01 R1 BGM-91-02 R1 BGM-91-03	CR  AL, BA, CA, FE, MG, MN V  PB	QOV QPA RHY	QCMB  QCMB	UB UB
BGM-91-02 BGM-91-01 BGM-91-02 BGM-91-03 BGM-91-01 BGM-91-02 BGM-91-03 BGM-91-03 BGM-91-03 BGM-91-04 BGM-91-05 BGM-91-03 R1 S1130 R1 BGM-91-01 R1 BGM-91-01 R1	AL, BA, CA, FE, MG, MN V PB	QOV QPA	QCMB	UB
BGM-91-03  BGM-91-01  BGM-91-02  BGM-91-03  BGM-91-01  BGM-91-03  BGM-91-03  BGM-91-03  BGM-91-01  BGM-91-03  R1  S1130  R1  S1129  R1  BGM-91-01  R1  BGM-91-03	FE, MG, MN V PB	QPA	QCMB	
BGM-91-01 SB BGM-91-02 BGM-91-03 BGM-91-01 SB BGM-91-02 BGM-91-03 BGM-91-03 23 R1 S1131 R1 S1130 R1 BGM-91-01 R1 BGM-91-03	FE, MG, MN V PB	QPA	QCMB	
BGM-91-02 BGM-91-03 BGM-91-01 BGM-91-03 BGM-91-03 BGM-91-03 BGM-91-03 23 R1 S1131 R1 S1130 R1 BGM-91-01 R1	FE, MG, MN V PB	QPA	QCMB	
BGM-91-03 BGM-91-01 BGM-91-02 BGM-91-03 BGM-91-03 BGM-91-03 BGM-91-03 23 R1 S1131 R1 S1129 R1 BGM-91-01 R1 BGM-91-02 BGM-91-03	PB			UB
BGM-91-01 SB BGM-91-02 BGM-91-03 BGM-91-01 SB BGM-91-02 BGM-91-03  23 R1 S1131 R1 S1129 R1 BGM-91-01 R1 BGM-91-01 R1	РВ			UB
BGM-91-02 BGM-91-01 BGM-91-02 BGM-91-03 23 R1 S1131 R1 S1130 R1 S1129 R1 BGM-91-01 R1				UB
BGM-91-03  BGM-91-01 SB BGM-91-02 BGM-91-03  23 R1  S1131 R1  S1130 R1  S1129 R1  BGM-91-01 R1	v	RHY	OCMB	
BGM-91-01 SB BGM-91-02 BGM-91-03  23 R1 S1131 R1 S1130 R1 S1129 R1 BGM-91-01 R1	v	RHY	OCMB	
BGM-91-02 BGM-91-03 23 R1 S1131 R1 S1130 R1 S1129 R1 BGM-91-01 R1	v	RHY	OCMB	
BGM-91-03 23 R1 S1131 R1 S1130 R1 S1129 R1 BGM-91-01 R1			ACMD	UB
23 R1 S1131 R1 S1130 R1 S1129 R1 BGM-91-01 R1 BGM-91-02 BGM-91-03				
S1131 R1 S1130 R1 S1129 R1 BGM-91-01 R1 BGM-91-02 R1 BGM-91-03				
S1130 R1 S1129 R1 BGM-91-01 R1 BGM-91-02 R1 BGM-91-03	CH2CL2	∨нн	<b>QCMB</b> , <b>QCTB</b>	AL
S1129 R1 BGM-91-01 R1 BGM-91-02 R1 BGM-91-03	ACET	VHC	<b>QCMB, QCTB</b>	AL
S1129 R1 BGM-91-01 R1 BGM-91-02 R1 BGM-91-03	CH2CL2			
BGM-91-01 R1 BGM-91-02 R1 BGM-91-03	CH2CL2	VНВ	QCMB	AL
BGM-91-01 R1 BGM-91-02 R1 BGM-91-03	MNBK			
BGM-91-02 R1 BGM-91-03	CH2CL2	VHF	осмв, оств	AL
BGM-91-03	CH2CL2	VHI	QСМВ	AL
BGM-91-03	MNBK			
BGM-91-03	CH2CL2	VHI	QCTB	AL
	CH2CL2	VЮ	QCMB, QCTB	AL
BGM-91-01 R2				
	CH2CL2	VIT	QCMB	AL
BGM-91-02 R2		VIQ	<b>QCMB, QCTB</b>	AL
S1129	CH2CL2			
BGM-91-03 R2	CH2CL2	-48-	QCMB, QCTB	AL
<u>1</u> 1123 R2	CH2CL2	VJC		<b>AL</b> :

SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	<b>QC ТҮРЕ</b>	LAB
			——————————————————————————————————————		
S1130	R2	CH2CL2	VIP	QCMB, QCTB, QCRB	AL
S1131					
PROPELLANT BU	RNING GROUND	/ LANDFILL 1/ SET	TLING PONDS AND	SPOILS DISPOSAL AREA	
PBS-91-01	S	BAANTR	PTU	QСМВ	UB
PBS-91-10					
PBS-91-20					
PBS-91-30					
PBS-91-40					
PBS-91-111					
PBS-91-52	S	CR	PWG	QCMB	UB
PBS-91-53	_	ZN			
PBS-91-54					
PBS-91-55					
PBS-91-56					
PBS-91-57					
PBS-91-58					
PBS-91-59					•
PBS-91-60					
PBS-91-61					
PBS-91-62					
PBS-91-63					
PBS-91-64					
PBS-91-65					
PBS-91-66					
PBS-91-67					
PBS-91-68					
PBS-91-69					
PBS-91-70					
PBS-91-71					
PBS-91-72					
PBS-91-72 PBS-91-73					
FB3-91-73					
PBS-91-118	S	BAANTR	PXX	QCMB	UB
PBB-91-01	SB	MEK	CZZ	ОСМВ	ET
PBB-91-01	SB	MEK	DAA	QCMB	ET
PBB-91-03					
PBB-91-03	SB	MEK	DAB	QCMB	ET
PBB-91-06					ı
PBB-91-01	SB	CR, ZN	QDJ	QCMB	UB

_SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	QC TYPE	LAB
PBB-91-02					
PBB-91-01 PBB-91-02 PBB-91-03	SB	CHRY	QDK	QСМВ	UB
PBB-91-06 PBB-91-07					
PBB-91-03 PBB-91-07	SB	CR	QDS	ОСМВ	UB
PBB-91-04 PBB-91-06	SB	CR	QEK	ОСМВ	UB
PBB-91-03 PBB-91-07	SB	PB	RSZ	QСМВ	UB
BB-91-04 B-91-05	SB	В2ЕНР	QGU	QСМВ	UB
PBB-91-05	SB	CR	QFX	QCMB	UB
PBB-91-06	SB	11DCE CH2CL2 MEK	CZX	ОСМВ	ET
PBB-91-06	SB	CH2CL2 MEK	CZY	QСМВ	ET
SPB-91-01	SB	В2ЕНР	QGU	QСМВ	UB
SPB-91-01	SB	AG, AL, BA, BE, CA, CR, FE, K, MG, MN, ZN	QFN	ОСМВ	UB
SPB-91-01	SB	MEK	DAH	QСМВ	ET
PBN-89-12A PBN-89-12B PBM-89-11 LOM-91-01 PBN-89-04A N-89-04B N-89-04C	R1	CR	MEI	QCMB	AL

	SAMPLE		CHEMICAL		
SITEID	ROUND	ANALYTE	DATA LOT	QC TYPE	LAB
					<del>-</del>
PBN-85-01A					
PBN-89-01B					
PBN-89-01C					
PBN-89-10D					
SPN-89-02A					
SPN-89-02B					
SPN-89-02C					
S1147					
SPN-89-03C					
SPN-89-04B					
PBN-82-03B	R1	ACET	VHC	QCMB, QCTB	AL
PBN-82-03C		CH2CL2			
S1117					
1 ON 61 O		CHACLA	VCU	QCMB, QCTB, QCRB	<b>A</b> T
LOM-91-01	R1	CH2CL2	VGU	QCMB, QC1B, QCKB	AL
PBM - 85-06 PBM - 89-07					
PBM -89-08					4
PBM-89-11					
PBN-89-03C					Ì
PBN-89-12A					
PBN-89-12B					
1014-07-120					
PBM-85-04	Ri	CH2CL2	VGV	QCMB	AL
PBM-85-05		MNBK			
PBM-89-05		CH2CL2	VGV	QCTB	AL
PBN-82-01C					
PBN-85-04A					
PBN-89-03B					
PBN-89-04B					
PBN-89-04C					
PBM-85-02	R1	CH2CL2	VGW	<b>QCMB</b> , <b>QCTB</b>	AL
PBM-89-06					
PBN-85-01A					
PBN-85-03A					
PBN-89-01B					
PBN-89-01C					
PBN-89-10D					
S1147	Ri	CH2CL2	VGX	QCMB, QCTB	AL
SPN-89-02A	V.	CISCLE	· JA	demp' de in	• •
SPN-89-02B					4
SPN-89-02C					
31 14-07-WC					

	ROUND	ANALYTE	CHEMICAL DATA LOT	QC TYPE	LAB
SPN-89-@C					
SPN-89-04B					
PBM-85-01	R1	CH2CL2	VGY	<b>QCMB, QCTB</b>	AL
PBM-85-03					
PBN-82-03A					
PBN-82-04B					
PBN-82-04C					
PBN-85-02A					
PBN-89-02B					
PBN-89-02C					
S1103					
PBM-82-02	R1	CH2CL2	VHA	<b>ОСМВ, ОСТВ</b>	AL
PBM-82-05					
LOM-89-01	R1	CH2CL2	VHB	QCMB	AL
PBM-82-04		MNBK			
1-89-09					
N-89-05A					
SPN-89-05B					
PBM-82-01	R1	CH2CL2	VHE	QCMB	AL
PBM-82-03					
PBN-82-01B					
PBN-82-01A	R1	CH2CL2	VHF	осмв, оств	AL
PBN-91-12C					
PBN-91-12D					
PBN-82-02A	R1	CH2CL2	vнн	осмв, оств	AL
PBN-82-05A					
PBN-82-05B					
PBN-89-10A					
PBN-82-02B	R1	CH2CL2	VHI	QCMB	AL
PBN-82-02C		MNBK			
PBN-82-05C		CH2CL2	VHI	QCTB	AL
PBN-89-10B					
PBN-91-06C					
PBN-91-06D					
PBN-82-04A	R1	CH2CL2	VHJ	<b>QCMB</b> , <b>QCTB</b>	AL
N-89-02A	R1	CH2CL2	VHL	ОСМВ	AL

_SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	<b>QC ТҮРЕ</b>	LAB
LON-89-@B LON-89-@A LON-89-@B					
PBN-91-02B PBN-91-02C					
PBN-89-01D	R1	CH2CL2	VHN	ОСМВ, ОСТВ	AL
S1101	R1	CH2CL2	VHR	<b>ОСМВ, ОСТВ</b>	AL
LOM-91-02 PBN-89-10C S1102 S1109 S1148 S1149	R1	CH2CL2 ACET CH2CL2 CHCL3	VHS VHS	QCMB QCTB	AL AL
SPN-89-04C SPN-91-QD SPN-91-04D	R1	CH2CL2 ACET CH2CL2 CHCL3	VHS VHS	оств Оств	AL AL
SPN-89-01C SPN-89-03B SPN-91-03D S1133 S1152A S1152B	Ri	CH2CL2	VHP	осмв, оств	AL
\$1104 \$1105 \$1106 \$1107 \$1108	Rı	CH2CL2	VHT	<b>QСМВ, QСТВ</b>	AL
PBM-90-01D PBM-90-03D PBN-90-04B PBN-90-04D PBN-91-01C PBN-91-03B PBN-91-03C	R1	CH2CL2	VHV	<b>Q</b> СМВ, <b>Q</b> СТВ	<b>AL</b>
PBN-82-01A PBN-82-01B	R2	CH2CL2	VIQ	осмв, оств	AL

SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	<b>QC Т</b> ҮРЕ	LAB
PBN-82-01C					
PBN-82-02A					
PBN-82-02B					
PBN-82-02C					
LOM-89-01	R2	CH2CL2	VIT	QCMB	AL
PBM-82-01					
PBM-82-02					
PBN-89-10A					
PBM-82-03	R2	CH2CL2	viw	QCMB, QCTB	AL
PBM-82-04					
PBN-82-03A	R2	CH2CL2	VIS	<b>QCMB</b> , <b>QCTB</b>	AL
PBN-82-03B					
PBN-82-03C					
17 146	R2	CH2CL2	VIZ	осмв, оств	AL
PBM-89-08	R2	CH2CL2	VJA	QCMB	AL
PBN-85-04A					
PBN-85-04B					
PBM-85-05	R2	CH2CL2	VJB	QСМВ	AL
PBN-82-05A					
PBN-82-05B					
PBN-82-05C					
PBN-89-04C					
PBM-85-02	R2	CH2CL2	V)C	QCMB, QCTB	AL
PBM-85-03					
PBM-85-04					
PBM-85-06					
PBM-89-05					
LOM-91-01	R2	CH2CL2	VJE	QCMB	AL
LOM-91-02					
LON-89-02A					
LON-89-02B					
LON-89-GA					
PBM-89-09					
03					

SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	QC TYPE	LAB
LON-89-03B PBM-89-11 PBN-85-02A PBN-89-02B PBN-89-02C SPN-89-01C S1104 S1105 S1106 S1109	R2	CH2CL2	VJF	<b>QСМВ, QСТВ</b>	AL
S1133  PBM-89-07  PBM-90-01D  PBN-85-01A  PBN-89-01B  PBN-89-01C  PBN-90-04B  PBN-90-04D  PBN-91-01C  SPN-89-05A  SPN-89-05B  S1102  S1108  S1148	R2	CH2CL2	VJG	<b>ОСМВ, ОСТВ</b>	AL
PBM-85-01 PBM-89-06 PBN-85-03A PBN-89-01D PBN-89-03B PBN-89-03C S1107 S1152A S1152B	R2	CH2CL2	νлн	<b>ОСМВ, ОСТВ</b>	AL
PBN-82-04B PBN-82-04C S1101 S1147 S1149	R2	CH2CL2	VJI	осмв, оств	AL
PBN-82-04A PBN-89-10B PBN-89-10C	R2	CH2CL2	VIJ	QCMB	AL.

	SAMPLE		CHEMICAL		
SITE ID	ROUND	ANALYTE	DATA LOT	QC TYPE	LAB
SPN-89-04B					
SPN-89-04C					
PBM-90-03D	. R2	CH2CL2	VJL	QCMB	AL
PBN-91-03B					
PBN-91-03C		•			
SPN-89-02B		•			
SPN-89-02C					
SPN-89-03B					
SPN-89-@C					
PBM-90-02D	R2	ACET	MLA	QCMB	AL
PBN-89-12A		CH2CL2			
PBN-89-12B		CH2CL2	VJM	оств	AL
PBN-91-02B					
PBN-91-02C					
PBN-91-12C					
BN-89-10D	R2	CH2CL2	VJN	QCMB	<b>AL</b>
PBN-91-06C					
PBN-91-06D					
PBN-91-12D					
SPN-89-02A					
SPN-91-02D					
SPN-91-03D					•
SPN-91-04D					
DETERRENT BUR	NING GROUND	EXISTING LANDF	TLL		
DBB-91-01	s	CR	QFX	QCMB	UB
DBB-91-02	SB	CR, ZN	QGM	QCMB	UB
DBB-91-03		0.0,	<b>4</b> 0	<b>4 </b>	
DBB-91-03	SB	MEK	DAL	QCMB	ET
DBB-91-03	SB	CH2CL2	DAM	QCMB	ET
		CHCL3			
		MEK			
ELN-82-01A	R1	CH2CL2	VHE	QCMB	AL
ELN-82-01B					
ELN-82-01C					
LN-82-03B					
4 05 050					

SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	QC TYPE	LAB
ELM-89-01 S1134	R1	CH2CL2	VHF	<b>QCMB</b> , <b>QCTB</b>	AL
ELN-82-04B ELN-82-04C ELN-89-04A ELN-89-04B	R1	CH2CL2	VHH	<b>ОСМВ, ОСТВ</b>	AL
ELN-82-04A ELN-89-02B S1135 S1153	R1	CH2CL2 MNBK CH2CL2	VHI VHI	QCMB QCTB	AL AL
DBN-89-04A DBN-89-04B	R1	CH2CL2	VHJ	<b>QСМВ, QСТВ</b>	AL
DBN-82-01B	R1	CH2CL2	VHL	QCMB	AL
S1122	R1	CH2CL2	VHL	QCMB	AL
DBM-89-05 ELM-89-03 ELM-91-10	R1	CH2CL2 CHCL3 TCLEE	VHM	ОСМВ	AL
ELN-89-06B ELN-91-07A ELN-91-07B		CH2CL2	VHM	оств	AL
DBM-82-02 DBM-89-01 DBM-89-03 DBN-82-01C ELM-89-05 ELM-89-07 ELM-89-08 ELN-82-02A	R1	CH2CL2	VHN	<b>QСМВ, QСТВ</b>	AL
ELN-82-02B ELN-82-02C					
DBN-89-02A DBN-89-02B	RI	CH2CL2	VHR	осмв, оств	AL
DBM-82-01 ELM-89-09	R1	CH2CL2	VHP	<b>QСМВ, QСТВ</b>	AL

SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	QC TYPE	LAB
ELM-89-09	R2	CH2CL2	VIQ	<b>QCMB, QCTB</b>	AL
ELN-82-01A					
ELN-82-01B					
ELN-82-01C					
DBN-89-04A	R2 '	CH2CL2	VIT	QCMB	AL
DBN-89-04B					
ELM-89-03					
ELM-89-05					
ELN-82-04C					
ELN-89-06B					
DBM-82-01	R2	CH2CL2	viw	<b>QCMB</b> , <b>QCTB</b>	AL
DBM-82-02					
ELN-82-03A					
ELN-82-03B					
ELN-82-03C					
LN-82-04A	R2	CH2CL2	VIS	<b>QCMB</b> , <b>QCTB</b>	AL
ELN-82-04B					
DBM-89-05	R2	CH2CL2	VIZ	<b>ОСМВ, ОСТВ</b>	AL
DBN-82-01B			•		
ELN-91-07A					
ELN-91-07B					
DBM-89-01	R2	CH2CL2	VJA	QCMB	AL
DBN-82-01C					
ELM-89-01					
ELN-89-02A					
ELN-89-02B					
DBM-89-03	R2	CH2CL2	VJB	QCMB	AL
DBM-89-03 DBN-89-02A	-70	J. 13 Jab	***	Anna	ست .
DBN-89-02B					
ELM-89-07					
ELM-89-08					
ELM-89-10					
ELN-89-04B	R2	CH2CL2	VJI	<b>QCMB</b> , <b>QCTB</b>	AL
EIN_92 00B	R2	CH2CL2	VII	OCMP.	<b>A</b> ?
ELN-82-02B ELN-82-02C	K4	ChiCLi	411	QCMB	AL
-02-02					
ELN-82-02A	R2	CH2CL2	VJL	QCMB	AL

SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	QC TYPE	LAB
ELN-89-04A S1135 S1153					
S1134	R2	ACET CH2CL2	VJM	QCMB	AL
		CH2CL2	VJM	QCTB	AL
NITROGLYCERIN	NE POND/ ROCKE	tt paste area/ ni	EW ACID AREA		
RPS-91-03	s	CR	PRR	QCMB	UB
RPS-91-04					
RPS-91-05					
RPS-91-06					
RPS-91-07 RPS-91-08					
RPS-91-09					
RPS-91-10					
RPS-91-11					
RPS-91-12					
RPS-91-13					
RPS-91-14					
RPS-91-15					
RPS-91-16					
RPS-91-17					•
RPS-91-18					
RPS-91-19					
RPS-91-20 RPS-91-21					
RPS-91-22					
RPS-91-23					
RPS-91-24					
RPS-91-25					
RPS-91-26					
RPS-91-27					
RPS-91-28					
RPS-91-29					
RPS-91-30					
RPS-91-31					
RPS-91-32					
RPS-91-33					
RPS-91-34					
RPS-91-35					
RPS-91-36					

SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	QC TYPE	LAB
RPS-91-17	S	BAANTR	PRZ	QCMB	UB
RPS-91-17	3	CHRY	· KL	QC/IID	OD.
RPS-91-19		CIRI			
RPS-91-20					
RPS-91-21					
RPS-91-22					
RPS-91-23					
RPS-91-24					
RPS-91-25					
RPS-91-26	•				
RPS-91-27					
RPS-91-28					
RPS-91-29					
RPS-91-29 RPS-91-30					
KP3-91-30					
RPS-91-01	SD	BAANTR	PTU	QCMB	UB
RPS-91-02					
S-91-57	S	BAANTR	PTU	QCMB	UB
×PS−91−58					
RPS-91-59					
RPS-91-60					
RPS-91-61					
RPS-91-62					
RPS-91-63					
RPS-91-64					
RPS-91-65					
RPS-91-66					
RPS-91-67					
RPS-91-68					
NPS-91-01	SD	CR	PTX	QCMB	UB
NPS-91-02				-	
NPS-91-03					
NPS-91-04					
NPS-91-05					
NPS-91-06					
NPS-91-07					
NPS-91-08					
NPS-91-09					
NPS-91-10					
RPS-91-01	SD	CR	ртх	QCMB	UB
S-91-02		_**	<del>-</del>	~ - ···· <del>-</del>	

SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	QC TYPE	LAB
RPS-91-57	S	CR	PTX	QСМВ	UB
RPS-91-58	_			-	
RPS-91-59					
RPS-91-60					
RPS-91-61					
RPS-91-62					
RPS-91-63					
RPS-91-64					
RPS-91-65					
RPS-91-66					
RPS-91-67					
RPS-91-68					
K13-71-00					
RPS-91-31	s	BAANTR	PXX	QCMB	UB
RPS-91-32		2.22			
RPS-91-33					
RPS-91-34					
RPS-91-35					
RPS-91-36					4
KI 5-71-30					
S1113	R1	CH2CL2	VHA	QCMB, QCTB	AL
S1114		CILCLE		435, 43.15	
31114					
S1115	R1	ACET	VHC	QCMB, QCTB	AL
S1116	14.	CH2CL2		40	
S1150		0.1202			
31130					
NPM-89-01	R1	CH2CL2	VHE	QCMB	AL
S1120	R1	CH2CL2	VHN	<b>QCMB, QCTB</b>	AL
S1121					
S1124					
	•				
RPM-89-02	R1	CH2CL2	VHR	QCMB, QCTB	AL
NAN-81-01A					
NAN-81-04B					
NAN-81-04C	•				
RPM-89-01	R1	CH2CL2	VHS	QCMB	AL
RPM-91-01		ACET	VHS	QCTB	AL
S1118		CH2CL2			
		CHCL3			
NAN-81-02B	Ri	CH2CL2	VHP	QCMB, QCTB	AL
NAN-81-03B					

SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	QC TYPE	LAB
NAN-81-03C S1119 S1125					
NAN-81-01A NAN-81-02B NAN-81-03B	R2	CH2CL2	VJA	QCMB	AL
NAN-81-03C S1121	R2	CH2CL2	VJB	QCMB	AL
S1124 S1125	R2	CH2CL2	VJC	<b>QСМВ, QСТВ</b>	AL
RPM-89-01 S1113 S1150	R2	CH2CL2	VJD	<b>ОСМВ, ОСТВ</b>	AL
M-89-02 PM-91-01 S1114 S1118 S1119 S1120	R2	CH2CL2	VJE	QСМВ	AL
S1115 S1116	R2	CH2CL2	VJF	<b>QСМВ, QСТВ</b>	AL
NPM-89-01 NAN-81-04B NAN-81-04C	R2	CH2CL2	vic	осмв, оств	AL
OLEUM PLANT/ O	LEUM PLANT PO	OND/ BALLISTICS I	POND		
BPS-91-01 BPS-91-02 BPS-91-03 BPS-91-04 BPS-91-05 BPS-91-06	SD	BAANTR	PXX	QCMB	UB
OPS-91-01 OPS-91-02 S-91-03 S-91-04	SD	CA	PYZ	QСМВ	UB

SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	QC TYPE	LAB		
OPB-91-01	SB	CR, FE	QLS	QCMB	UB		
OPB-91-01	SB	PB	QPA	QCMB	UB		
OPB-91-01	SB	FE	QPE	QCMB	UB		
OPB-91-04 OPB-91-05	SB	CR, FE	RAL	QСМВ	UB		
OPM-89-02	Rı	ACET CH2CL2	<b>V</b> HC	QCMB, QCTB	AL		
S1151	R1	ACET CH2CL2	VHC	QCMB, QCTB	AL		
OPM - 89 - 01 OPM - 89 - 03	R1	CH2CL2 MNBK	VHI	ОСМВ	AL		
<b>U</b>		CH2CL2	VHI	QCTB	AL		
S1127 S1128	R1	CH2CL2	VHF	ОСМВ, ОСТВ	AL		
S1132	R1	CH2CL2	VHH	<b>QCMB</b> , <b>QCTB</b>	AL		
OPM -89-03 S1151	R2	CH2CL2	VIP	QCMB, QCTB, QCRB	AL		
OPM-89-01	R2	CH2CL2	VIQ	осмв, оств	AL		
OPM-89-02 S1132	R2	CH2CL2	VIS	<b>QCMB</b> , <b>QCTB</b>	AL		
OLD ACID AREA/ OLD FUEL OIL TANK AREA							
OAB-91-03	SB	CR	QHF	• ОСМВ	UB		
OAM-89-02 S1126	R1	CH2CL2	VHR	осмв, оств	AL		
FTM-89-01	R1	CH2CL2	VHR	осмв, оств	AL		
OAM-89-01 OAM-91-01	R1	CH2CL2	VHP	осмв, оств	AL		

SITE ID	SAMPLE ROUND	ANALYTE	CHEMICAL DATA LOT	ос туре	LAB
FTM - 89 - 01 OAM - 89 - 01 OAM - 89 - 02 OAM - 91 - 01 S1126	R2	CH2CL2	VID	<b>QСМВ, QСТВ</b>	AL
OFF-POST AREA	SOUTH OF BAAP				
PBM-90-02D	R1	CH2CL2 CHCL3 TCLEE	VHM VHM	QCMB	AL
SWN-91-03B SWN-91-03C SWN-91-03D SWN-91-03E	RI	CH2CL2	VHR	ОСТВ ОСМВ, ОСТВ	AL AL
N-91-01B WN-91-01C SWN-91-05B SWN-91-05C SWN-91-05D	R1	CH2CL2	∨нт	осмв, оств	AL
SWN-91-01D SWN-91-02C SWN-91-02D SWN-91-04C SWN-91-04D	R1	CH2CL2	VHV	<b>Q</b> СМВ, <b>Q</b> СТВ	AL
PREMO SCHAEFER SPEAR	R1	CH2CL2	VHF	<b>ОСМВ, ОСТВ</b>	AL
SWN-91-05B SWN-91-05C SWN-91-05D	R2	CH2CL2	Aii	QCMB	AL
SWN-91-01C SWN-91-01D SWN-91-04C SWN-91-04D	R2	CH2CL2	νјн	<b>ОСМВ, ОСТВ</b>	AL
N-91-01B N-91-02C	R2	CH2CL2	VJI	ОСМВ, ОСТВ	AL

#### REMEDIAL INVESTIGATION BADGER ARMY AMMUNITION PLANT

SAMPLE		CHEMICAL		
ROUND	ANALYTE	DATALOT	QC TYPE	LAB
R2	CH2CL2	VJL	QCMB	AL
R2	ACET	VJM	QCMB	AL
	CH2CL2			
	CH2CL2	VJM	QCTB	AL
R2	CH2CL2	VIS	QCMB, QCTB	AL
L NO. 2 (SOUR	CE WATER FOR RI	FIELD PROGRAM)		
R1	CH2CL2	VHF	<b>QCMB</b> , <b>QCTB</b>	AL
R2	CH2CL2	VIP	QCMB, QCTB, QCRB	AL
	NIT	QIV	QCRB	UB
	R2 R2 R2 L NO. 2 (SOURCE	R2 CH2CL2  R2 ACET CH2CL2 CH2CL2  R2 CH2CL2  LL NO. 2 (SOURCE WATER FOR RI R1 CH2CL2  R2 CH2CL2	R2 CH2CL2 VJM  CH2CL2 CH2CL2 CH2CL2 VJM  R2 CH2CL2 VIS  LL NO. 2 (SOURCE WATER FOR RI FIELD PROGRAM)  R1 CH2CL2 VIF  R2 CH2CL2 VIF	R2 CH2CL2 VJM QCMB  CH2CL2 CH2CL2 CH2CL2 VJM QCTB  R2 CH2CL2 VIS QCMB, QCTB  LL NO. 2 (SOURCE WATER FOR RI FIELD PROGRAM)  R1 CH2CL2 VIF QCMB, QCTB  R2 CH2CL2 VIP QCMB, QCTB, QCTB

Notes:

QCMB - Method Blank QCTB - Trip Blank QCRB - Rinsate Blank

ET - EA Laboratories
AL - Arthur D. Little Laboratories

UB - Datachem Laboratories

S - Soil Sample

SB - Subsurface Soil Sample

SD - Sediment Sample

R1 - Round One Groundwater Sample (November/December 1991)

R2 - Round Two Groundwater Sample (April/May 1991)

QCMB - Method Blank QCTB - Trip Blank QCRB - Rinse Blank

USATHAMA acronyms for analytes are defined in the R1 Report Glossary.

Complete Chemical Quality Control Reports from the IRDMIS are attached.

#### TABLE L3-2 LOW CONCENTRATION CR STANDARD -MATRIX SPIKE RECOVERIES

### REMEDIAL INVESTIGATION BADGER ARMY AMMUNITION PLANT

Groundwater Sampling Round	Lot	CR Spike <sup>1</sup>	CR Value <sup>1</sup> ug/l	% Recovery
Round One	MEI	9	12.1	134.44
	MEJ	9	8.91	99.00
	MEK	9	20.2	224.44
	МЕМ	9	8.81	97.89
	MEN	9	9.42	104.67
Average:	MEO	9	8.57	95.22 125.94 %
Round Two	MEZ	9	8.35	92.78
	MFA	9	9.02	100.22
	MFB	9	8.99	99.89
	MFD	9	9.49	105.44
	MFE	9	8.51	94.56
	MFF	9	9.17	101.89
Average:	MFG	9	9.02	100.22 99.29 %

Notes:

<sup>1</sup>See attached IRDIMIS QC Report

#### **DATACHEM LABORATORIES**

W0039213L.APP 6853-12

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Test Name	DWP DNBP	DNOPD4	ENDRNA	ENDRNK	ESFSO4	FLRENE	HCBD	HPCL	ICDPYR	ISODR	ISOPHR	MEXCLR	MIREX	MLTHN	4 X	NBDS	NNDMEA	NNDNPA	OXAT	PCB016	PCB221	PCB232 PCB242	PCB248	PCB254	PCB260 PCB262	PCP	PHANTR	PHENDS	PPDDD	PPDDE	TECH	PYR	SUPONA	TXPHEN	130804	2CLPD4	2FBP
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Method	LM25 LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	1 X 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25 LM25
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Test Name	2FP DEPD4 DNOPD4	NBDS	TRPD14	13DBD4 246TBP	2CLPD4	2FBP 2FB	DEPD4	DNOPD4	NBD5 PHEND6	TRPD14	130804	246TBP 2CLPD4	2FBP	2FP	DEPD4	NBDS	PHEND6	TRPD14	246TBP	2CLPD4	2FBP	DEPD4	DNOPD4	NBDS	TRPD14	130804	246TBP	2CLPD4	ZFP	DEPD4	DNOPD4	PHEND6	TRPD14	130804	2CLPD4	2FBP 2FP
F Samp No	R9117000 R9117000 R9117000	11700	911700	911800	911800	911800	911800	911800	911800	911800	911900	911900	911900	911900	911900	911900	911900	911900	912000	912000	912000	912000	912000	912000	000016	912100	912100	912100	912100	912100	912100	912100	912100	912200	912200	912200

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Method	LM25 LM25	LM25 LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	1.M25	LM25	LM25	LM25	1371 1271	1.M25	1.M25	LM25	LM25	LM25	LM25	1.M25	LM25	LM25	LM25	LMZS	LM25	LM25	LM25	LM25	LM25	1.N.1	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25 LM25
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Test Name	DEPD4 DNOPD4	PHEND6	130804	246TBP	2CLPD4	2FP	DEPD4	DNOPD4	NBDS	TRPD14	13DBD4	246TBP	2CLPD4	25BF	DEPD4	DNOPD4	NBDS	PHEND6	TRPD14	130804	2461BF 2CT.PD4	2FBP	2FP	DEPD4	DNOPD4	PHENDS	TRPD14	13DBD4	246TBP	2CLPD4	2505	DEPD4	DNOPD4	NBDS	PHEND6	TRPD14	246TBP	2CLPD4	2FBP	2FP Depd
F Samp No	R9122000 R9122000	72	22	2	25	72	2	2:	75	10	2	2	בו	7.	10	2	2	2	2	7.	10	2	12	2	7	15	2	2	2	75	10	12	2	2	2	7,	10	2	2	22
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality of Report Installation: Badg P, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Value	0.100 0.377 1.040 1.040	0.510 0.523 7.190 7.620 23.600	0.010 0.326 0.326 0.055	7867	2222 2422 2022 2022 2020 2020 2020 2020	5220	5.000 11.200 77.700 78.500	0.510 0.427 7.630 7.710 26.000	0.010
Meas Bool	ដ	r1	נז נז	LT	<u> </u>	in i	LI	ដ	LT
Analysis Date	03-oct-1991 03-oct-1991 03-oct-1991 03-oct-1991	25-8ep-1991 25-8ep-1991 25-8ep-1991 25-8ep-1991 26-8ep-1991	24-oct-1991 24-oct-1991 24-oct-1991 24-oct-1991 24-oct-1991 24-oct-1991 24-oct-1991	4-oct-199 4-oct-199 4-oct-199 4-oct-199	27-sep-1991 27-sep-1991 27-sep-1991 27-sep-1991 27-sep-1991 27-sep-1991 27-sep-1991	7-sep-199 2-oct-199 2-oct-199 2-oct-199 2-oct-199	07-oct-1991 07-oct-1991 07-oct-1991 07-oct-1991	27-sep-1991 27-sep-1991 27-sep-1991 27-sep-1991 30-sep-1991	02-nov-1991
Method	8888	LW27 LW27 LW27 LW27		TN08 TN08 TN08 TN08	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LW23 KF17 KF17 KF17	KTO7 KTO7 KTO7	LW27 LW27 LW27 LW27	LNO8
/ Spike	0.000	0.000 0.800 9.000 30.000	000000000000000000000000000000000000000	88488	225.000 00000000000000000000000000000000	8888	0.000 80.000 80.000	0.000 0.800 0.800 0.000 0.000 0.000	000.0
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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	Analysis Date	02-nov-1991 02-nov-1991 02-nov-1991 02-nov-1991 02-nov-1991 02-nov-1991 02-nov-1991 02-nov-1991 02-nov-1991	30-sep-1991 30-sep-1991 30-sep-1991 30-sep-1991 30-sep-1991 30-sep-1991 30-sep-1991 30-sep-1991	07-oct-1991 07-oct-1991 07-oct-1991 07-oct-1991	03-oct- 03-oct- 03-oct- 03-oct- 1991 03-oct- 1991 03-oct- 03-oct- 03-oct- 03-oct- 03-oct- 03-oct- 03-oct- 03-oct- 03-oct- 03-oct- 1991 03-oct- 1991	02-oct-1991 02-oct-1991 02-oct-1991 02-oct-1991 02-oct-1991 02-oct-1991 02-oct-1991
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Chemical Quality of bl Report Installation: Badge P, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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ye: OI-jam-	Method Code	JS12 JS12	3021 3021 3021 3021	6666 KKKK	KF17 KF17 KF17	KT07 KT07 KT07	LW27 LW27 LW27 LW27	22555555555555555555555555555555555555
Date Range:	/ Spike	100.000	0.000 16.000	0.000	0.000 20.000 20.000	0.000 80.000 80.000	0.000 0.800 9.000 9.000	
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	F Samp No							
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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oc Type					
Test Name	2MNAP 2MP 2NANIL 2NP 33DCBD 35DNA	3NANIL 3NT 46DN2C 4BRPPE 4CL3C 4CL3C 4CL3C 4MP	4NANIL 4NP 4NP ABHC AEDRN ANAPNE ANTRC ANTRC B2CEXM B2CEXM	B2CLEE B2EHP BAANTR BAPYR BBFANT BBFC BBCP BENSUF BENSUF BCHIPY BKFANT CHRY CL6BZ	CL6CP CLDAN CLDAN CLDAN CPMSO CPMSO CPMSO DBAHA DBCP DBCP DBCP DBCP

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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je: Ul-jan-	Method	\$\$12 \$\$12	AX8 AX8 AX8	\$025 \$025 \$025 \$025	SD18 SD18 SD18 SD18	SD29 SD29 SD29 SD29	8888	UW25 UW25 UW25 UW25 UW25 UW25	11109 11109 11109 11109	LW27 LW27 LW27 LW27 LW27
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality of Report Installation: Badg AP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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QC Type	OCMB OCMB		E SO		OCMB	OCMB	d SCO		OCMB	ОСМВ	OCMB			OCMB	OCSP	OCMB	OCSP	SCAB CAB			OCMB	OCMB	OCMB	OCMB	OCMB		OCINE	OCNP	OCNE	OCNE	OCINE		OCIND	OCNP	OCNP	OCNP	OCINE		OCN P	OCNP	OCNP
Test Name	ACROLN ACRYLO BBDCT W	C13DCP	CZH3CL	CZHSCL	CCL3F	CCL4	CDZCTZ	CH3BR	CH3CL	CHBR3	CHCL3	CHOCIC	DBRCLM	DCLB	ETBD10	ETC6H5	MEC6D8	MECCHS	MER	MAN	STYR	TISDCP	TCLEA	TCLEE	TRCLE	XXLEN	CD2C1.2	ETBD10	MEC6D8	12DCD4	CDZCLZ	ETEDIO	120CD4	CD2CL2	ETBD10	MEC6D8	12DCD4	CDZCEZ	MEC6D8	12DCD4	CD2CL2
F Samp No																								•		011010	911070	911070	911070	911080	911080		060116	911090	911090	911090	911100	91116	911100	P9111003	911100

Chemical Quality of Report Installation: Badge P, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Test Name	ETBD10 MEC6D8 120CD4 CD2CL2 MEC6D8 120CD4 CD2CL2 ETBD10 MEC6D8 120CD4 CD2CL2 ETBD10 MEC6D8 120CD4 CD2CL2 ETBD10 MEC6D8 MEC6D8 120CD4 CD2CL2 ETBD10 MEC6D8 MEC6D8 MEC6D8 MEC6D8 MEC6D8 MEC6D8 MEC6D8 MEC6D8 MEC6D8 MEC6D8 MEC6D8	1111	24DNT 24DNT 24DNT 24DNT 26DNT 26DNT 26DNT 70D 26DNT	240NT 240NT 240NT 240NT 260NT 260NT	<b>A A B B B B B B B B B B</b>
F Samp No	P9111003 P9111103 P9111103 P91111103 P9112000 P9112000 P9113000 P9113000 P9114000 P9114000 P9115000 P9115000 P9115000				
Lot	PUR	PUW	PUX	PUY	P V A
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

Lab UB

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Method	LM25 LM25	LW25	LM25	LM25	LM25	LM25	LM25	LM25	1, K 2, L	LM25	LM25	1.M25	LM25	LM25	LM25	1.M25	LM25	LM25	LM25	1.K25	L#25	LM25	LM25	1.M25	1.N25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25 LM25
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Test Name	4CLPPE 4MP 4NANTL	4NP	ABHC	ALDRN	ANAPNE	ANTRC	ATZ	BZCEXM	B2CLEE	BZEHP	BAANTR	BAPYK	ввис	BBZP	BENSLF	BGHIPY	BKFANT	BZALC	CHRY	7.652 7.678	CLEET	CLDAN	CPMS	CPMSO	DRAHA	DBCP	DBHC	1082FUR	DOVP	DEP	DEPD4	DITE	DAP	DNBP	DNOP	DNOPD4	ENDRN	ENDRNK ESFS04
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Method	LM25	1.M25	LM25	LM25	LM25	1 120	1 N S S	1.M25	LM25	LM25	LM25	LM25	LM25	LM25	LMZS	07ET	C7W7	C727	1277 1277	1227 1227	1970	727	1271 1271	1373 1773	1 X 2 2	1 120	1 K2 K	1.M25	LM25	LM25	LM25	LM25	LM25	LAZ2	1 M2 F	1.M25	1.M25	LM25	LM25	LM25	LM25	LMZ5	LM25	1370 1200	LA25	LM25
/ Spike	S. 000	•	•	•	•	•	•	• •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• •	•	•	•	•	•	•	٠	•	•
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Test Name	246TBP	2FBP	2FP	DEPD4	DROPD4		TRPD14	13DBD4	246TBP	2CLPD4	2FBP	2FP	DEPD4	DNOPD4	NBCO	FIRESDO	TREDIA	130804	740187	としたかりま	7107	7466	DEPUT.	POSOPO4		THERDO	12004	246TRD	2CLPD4	2FBP	2FP	DEPD4	DNOPD4	CORN	FRENDO	12014	246TRP	2CLPD4	2FBP	2FP	DEPD4	DNOPD4	NBDS	PHEND6	1 APPLA	246TBP
Samp No	R9138000																																													
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

PVE PVE

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Unit Meas ISC	90000000000000000000000000000000000000	9999999
Value	404-684-68-69-69-69-69-69-69-69-69-69-69-69-69-69-	6.250 6.250 7.290 2.100
Meas Bool	5	5
Analysis Date	00000000000000000000000000000000000000	-oct-199 -oct-199 -oct-199 -oct-199 -oct-199
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OC TYPE		A A A A A A A A A A A A A A A A A A A
Test Name	2CLPD 4 2FBP DEPD 4 DEPD 4 DEPD 4 DEPD 4 13DBD	NBD5 PHEND6 TRPD14 13DBD4 246TBP 2CLPD4
F Samp No	R89144300000000000000000000000000000000000	111444 11484 14884

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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ISC		
Unit		99999999999999999999999999999999999999
Value	3.490 10.300 10.	0.803 0.803 0.803 0.803 0.427 0.427 1.200 82.010 91.300 1.000 1.000
Meas Bool	E9	ב בבבבבבב
Analysis Date	033-0000000000000000000000000000000000	18-oct-1991 18-oct-1991 18-oct-1991 18-oct-1991 18-oct-1991 18-oct-1991 18-oct-1991 18-oct-1991 18-oct-1991 18-oct-1991
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Unit	990 990 990 990 990 990 990 990 990 990	0000	
Value	10.600 97.900 98.600 713.000 74.900 95.000 95.000 1410.000 1410.000 1462.000 16.600 95.000 95.000 16.600 95.000 95.000 95.000	0.500 1.970 13.000 17.000	5.800 11.200 11.200 11.200 11.200 11.500 11.500 17.6.000 17.6.000 17.6.000 17.6.000 17.6.000 17.6.000 17.6.000
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Analysis Date	188-0ct-19991 188-0ct-19991 188-0ct-19991 188-0ct-19991 188-0ct-19991 188-0ct-19991 188-0ct-19991 188-0ct-19991 188-0ct-19991 188-0ct-19991 188-0ct-19991 188-0ct-19991 188-0ct-19991	16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991	02-0ct-1991 02-0ct-1991 02-0ct-1991 02-0ct-1991 02-0ct-1991 02-0ct-1991 02-0ct-1991 02-0ct-1991 02-0ct-1991 02-0ct-1991 02-0ct-1991 02-0ct-1991 02-0ct-1991
Method Code		Ø Ø Ø Ø Ø Ø Ø Ø	22222222222222222222222222222222222222
e / Spike	100 800 100 100 100 100 100 100 100 100	0.000 2.000 16.000 16.000	
gc Typ	OCCONTRACTOR OCCON	OCKB OCSP OCSP	
Test Name	SZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	1111	1231CB 1241CB 120CLB 120CLB 130CLB 130CLB 2451CP 245TCP 240MPN 240MPN 26DNT 26DNT 26DNT 26DNT 26DNT 26CLP 26
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Test Name	2FP 2MNAP 2MP 2NANIL 2NP	33DCBD 35DNA 3NANIL 3NT	46DN2C 4BRPPE 4CANIL 4CL3C	4CLPPE 4MP 4NANIL 4NP	ABHC AENSLF ALDRN ANAPNE ANAPYL	ANTRC ATZ BZCEXM BZCIPE	B2CLEE B2EHP BAANTR BAPYR BBFANT	BBZP BENSLF BENZOA BGHIPY BKFANT BRMCIL BBACIL	CHRI CL668 CL667 CL687 CLDAN CPMSO CPMSO	DBAHA DBCP DBHC DBZFUR
F Samp No										

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Lab UB

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Analysis Date	02-oct-1991 02-oct-1991 02-oct-1991 02-oct-1991	2-oct-199 2-oct-199	2-oct-199	2-oct-199 2-oct-199	2-oct-199 2-oct-199	2-oct-199	2-oct-199 2-oct-199	2-oct-199 2-oct-199	2-oct-199	2-oct-199	2-oct-199 2-oct-199	2-oct-199	2-oct-199 2-oct-199	2-oct-199 2-oct-199	2-oct-199	2-oct-199 2-oct-199	2-oct-199	2-oct-199 2-oct-199	2-oct-199	2-oct-199 3-oct-199	2-oct-199	2-oct-199 2-oct-199	2-oct-199	2-oct-199	2-oct-199	2-oct-199	2-oct-199 2-oct-199	2-oct-199	2-oct-199	2-oct-199 2-oct-199
Method	UM25 UM25 UM25 UM25	UM25 UM25	UM25	UM25	UM25 UM25	UM25	UM25	UM25 UM25	UM25	UM25	UM25 UM25	UM25	UM25 UM25	UM25 UM25	UM25	UM25 UM25	UM25	UM25	UM25	0M25	UM25	CM25	UM25	UM25	UM25	UM25	0329 0329	UM25	UM25	UM25
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oc Type	OCMB OCMB OCMB		OCWB OCWB	OC WB	OCSP OCSP	OCWB CWB	OCMB OCMB		OCWB CWB	CMB		OCMB	OCMB OCMB		OCMB		OCSP		OCMB	OC WB	OCMB	S S S S S S S S S S S S S S S S S S S	OCMB	B G C C C C C C C C C C C C C C C C C C	OCMB	OCMB	OCMB	OCMB	SCAB COMB	OCMB
Test Name	DCPD DDVP DEP DEPD4	DIMP	DMMP	. ABNO	DNOP DNOPD4	ENDRN	ENDRNK	ESFS04 Fant	FLRENE	HPCL	HPCLE	ISODR	LIN	MEXCLR MIREX	MLTHN	NAP NB	NBDS	NNDMEA	NNDPA	OXAT	PCB221	PCB232 DCB242	PCB248	PCB254	PCP	PHANTR	PHENOL	PPDDD	PPDDT	PYR
F Samp No																														

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Prog	HHH HHH	
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Unit		000000000000000000000000000000000000000
Value	111	0.200 0.330 0.270 0.270 0.320 0.320
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Analysis Date	022-000 022-109991 022-10-001 023-10-001 033-10-001 033	04-oct-1991 04-oct-1991 04-oct-1991 04-oct-1991 04-oct-1991 04-oct-1991
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Test Name	SUPONA 130PONA 130PONA 2467BPD 2767	1117CE 1127CE 11DCE 11DCLE 12DCD4 12DCE
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Meas Bool	111	111	52	ដ	S F	ដ	Š	i i	i.	55	15			45	ដ	r.	ដូរ	0 <del>f</del>	15		LT	£.	ដ	ដ	2 2	2	ដ	H.	35	1								
Analysis Date	oct	-oct-199	-oct-199 -oct-199	-oct-199	-oct-199	-oct-199	-oct-199	-oct-199 -oct-199	-oct-199	-oct-199	-oct-199 -oct-199	-oct-199	-oct-199	-oct-199 -oct-199	-oct-199	-oct-199	-oct-199	-oct-199	-oct-199 -oct-199	-oct-199	-oct-199	-0ct-199 -0ct-199	-oct-199	-oct-199	-oct-199 -oct-199	-oct-199	-oct-199	-oct-199	-oct-199 -oct-199	-oct-199	-oct-199	-001-100-	-oct-199	-oct-199	-oct-199 -oct-199	-oct-199 -oct-199	-oct-199	-001-100-
Method	LM23	LM23	LA23 LA23	LM23	LM23	LM23	LM23	LA23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LAZZ	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LMZ 3
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Test Name	12DCLP 13DCLB	130MB	48FB	ACET	ACROLIN	BRDCLM	C13DCP	CZH3CL	CZHSCL	CGH6	CCLA	CD2CL2	CH2CL2	CH3CL	CHBR3	CHCL3	CLC6H5	CS2	DCLB	ETBD10	ETCGHS	MECODS MECODS MECODS	MEK	MIBK	ANBK	TIBDCP	TCLEA	TCLEE	XVIEN	12DCD4	CD2CL2	ETBD10	120CD4	CD2CL2	ETBD10	12DCD4	CD2CL2	ETBD10
F Samp No																														152	152	152	153	153	153	154	P9154000	154
rot 1	PVO																																					

Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Analysis Date	04-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991	05-00000000000000000000000000000000000
Method	BARRARARARARARARARARARARARARARARARARARA	
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QC Type		
Test Name	MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8	11117CE 11127CE 1110CE 110CCE 120CD4 120CCE 120CCE 130CCE 130CCE 130CCE ACET ACET ACCT ACCT C2AVE C2AVE C2AVE C2AVE C2AVE C2AVE CCL3 CCL3 CCL3 CCCCC CCCCC CCCCC CCCCCCCC
F Samp No	P9155000 P9155000 P9155000 P9155000 P9155000 P9155000 P9155000 P9157000 P9158000 P9158000 P9158000 P9159000 P9159000	
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ISC	æ				ĸ	cc. cc	:																										
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Value	0.240 0.100 0.500 0.250	74-	4-	14	90	o c	.2	٦٠		<u>ت</u> د	?=:	œٔ،	: -:	ü	ກຸຕຸ	. 4	ni c	'nω	0	-	. ה	Ġ.	70	. 4	σ,			0	Ō٩	9.	S	מי יי	•
Meas Bool	THOT	ង ង	<u> </u>	12:	32	<u>2</u> 2	ដ	55	ដ																								
Analysis Date	0000	5-oct-199 5-oct-199 5-oct-199	5-oct-199	5-oct-199	5-oct-199	5-oct-199 5-oct-199	5-oct-199	5-oct-199 5-oct-199	5-oct-199	5-oct-199 5-oct-199	5-oct-199	5-oct-199	5-0ct-199	5-oct-199	5-oct-199 5-oct-199	5-oct-199	5-oct-199	3-0ct-199 5-oct-199	5-oct-199	5-oct-199 5-oct-199	5-oct-199	5-oct-199	5-oct-199 5-oct-199	5-oct-199	5-oct-199	5-00t-199 5-00t-199	5-oct-199	5-oct-199	5-oct-199 5-oct-199	5-oct-199	5-oct-199	5-oct-199 5-oct-199	5-oct-199
Method Code	LM23 LM23 LM233	LW23 LW23 LW23 LW23 LW23 LW23 LW23 LW23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	L#23	LM23	LM23	LM23	LA23	LM23	LM23	LA23	LM23	LW23	LM23
/ Spike	00000	500	00	900	90	0,0	.01	90	,0	90	.0	Ö	,0	Ö	20	.0	9	,0	0	ÖC	.0	9	j.	.0	9		,0	0	90	,0	0	ÖC	
QC Type	OCMB OCMB OCMB		OCKB OCKB	OCMB	OCMB OCMB	OCMB	OCMB		OCMB	a a NO O	OCNP	OCN P	OCNP	OCNP		OCNP	OCNP	OCINE	OCNP		OCIND OCIND	OCNP		OCNP	OCNP	OCING CING CING CING CING CING CING CING	OCNP	OCNP	OCK P	OCNP	OCNP		OCNP
Test Name	CHCL3 CLC6HS CS2 DBRCLM	DCLB ETBD10 ETC6H5	MEC6D8 MEC6H5	MEK	MNBK	STYR	TCLEA	TCLEE	XXLEN	120CD4	ETBD10	MEC6D8	CD2CL2	ETBD10	120CD4	CD2CL2	ETBD10	12DCD4	CD2CL2	ETBDIO	12DCD4	CD2CL2	ETBD10	12DCD4	CD2CL2	ETBD10	12DCD4	CD2CL2	ETBD10	12DCD4	CD2CL2	ETBD10	12DCD4
F Samp No										913200	913200	P9132000	913300	913300	913300 913400	913400	913400	913500	913500	913500	913600	913600	913600	913700	913700	913700	913800	913800	913800	913900	913900	913900	914000
For	PVP																																

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

Prog	000000000000000	111111111111111111111111111111111111111		1111	1111
ISC					
Unit	999999999999999999999999999999999999999	000000000000000000000000000000000000000		ngr ngr ngr	99999 99999
Value	wwaawaaawaaa 	25.200 26.100 201.000 2.000 2.000 2.000	6.780 205.200 2130.000 2130.000 245.000 260.000 49.200 110.000 531.000	0.100 0.366 0.955 0.971	2.500 8.940 20.200 21.000
Meas		i iiii	<b>5 5 5</b>	LT	r <sub>1</sub>
Analysis Date	05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991 05-0ct-1991	03-oct-1991 03-oct-1991 03-oct-1991 03-oct-1991 03-oct-1991 03-oct-1991 03-oct-1991	24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991	14-oct-1991 14-oct-1991 14-oct-1991 14-oct-1991	15-oct-1991 15-oct-1991 15-oct-1991 15-oct-1991
Method	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LW23 LW23 LW23 LW23 LW23 LW23		8888 80000	0 0 0 0 0 0 0 0
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일		OCSP CON CONTRACTOR CO	00000000000000000000000000000000000000	OCMB OCSP OCSP	OCH OCSP OCSP
Test Name	CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8	24DNT 24DNT 24DNT 24DNT 26DNT 26DNT 26DNT	666668888888888888888888888888888888888	5555	988 888 888 888
F Samp No	P9140000 P9140000 P9140000 P9149000 P9150000 P9150000 P9150000 P9151000 P9151000 P9151000 P9151000				
ž	a a	PVR	124	PVU	PW
Lab	<b>8</b>	80	<b>a</b>	<b>8</b>	<b>8</b> 0

Chemical Quality ol Report Installation: Badge PP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

Prod	11111 11111	#### ####	######################################	######################################	
ISC					
Unit	00000	000 000 000 000	0000	0000	
Value	0.449 0.889 12.000 12.300	0.467 2.280 12.900 15.400	0.050 0.112 0.506 0.512	0.500 2.190 14.700 15.300	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Meas	LT	r1	r.	ដ	ב ב ב בבבבבבב
Analysis Date	11-oct-1991 11-oct-1991 11-oct-1991	11-oct-1991 11-oct-1991 11-oct-1991 11-oct-1991	16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991	11-oct-1991 11-oct-1991 11-oct-1991	233-00000000000000000000000000000000000
Method	3020 3020 3020 3020	3021 3021 3021 3021	0000 KKKK	<b>თ</b> თ თ თ თ თ თ თ	
/ Spike	0.000 16.000 16.000	0.000 16.000 16.000	00.000	0.000 16.000 16.000	00000000000000000000000000000000000000
SC Type	OCMB OCSP OCSP	OCCAR OCCAR OCCAR	OCKB OCSP OCSP	OCKB OCSP OCSP	S S S S S S S S S S S S S S S S S S S
Test Name	ល ល ល ល ខា ខា ខា ខា	8 8 8 8 8 8 8 8	HC HC HC HC HC HC HC HC HC HC HC HC HC H	1111	
F Samp No					
Lot	PVE	Y X X	PVY	PV2	e de la companya de l
Lab	<b>8</b>	80	80	<b>8</b> 0	<b>8</b> 0

Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

Prog			1111				+++++++++++++
ISC							
Unit	000000000000000000000000000000000000000	000 000 000 000	0000	00000	00000	0000 0000 0000	000000000000000000000000000000000000000
Value	44.390.000 3790.000 34.300 34.300 34.300 34.300 34.300 693.600	2.500 8.330 17.800 20.500	0.449 0.925 12.800 13.800	0.467 1.960 14.700 14.800	0.050 0.087 0.500 0.517	0.500 1.470 11.100 11.200	0.803 0.803 0.803 0.803 0.427 1.200 95.300 687.000
Meas Bool	11111	LT	LT	LT.	LT.	r1	בבבבבבבב
Analysis Date	23-oct-1991 23-oct-1991 23-oct-1991 23-oct-1991 23-oct-1991 23-oct-1991 23-oct-1991 23-oct-1991	21-oct-1991 21-oct-1991 21-oct-1991 21-oct-1991	18-oct-1991 18-oct-1991 18-oct-1991 18-oct-1991	21-oct-1991 21-oct-1991 21-oct-1991 21-oct-1991	16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991	21-oct-1991 21-oct-1991 21-oct-1991 21-oct-1991	26-oct-1991 26-oct-1991 26-oct-1991 26-oct-1991 26-oct-1991 26-oct-1991 26-oct-1991 26-oct-1991 26-oct-1991 26-oct-1991 26-oct-1991
Method	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	3020 3020 3020 3020	3021 3021 3021 3021	0000 KKKK	<b>ᲗᲗᲗᲗ</b> <b>ᲗᲗᲗᲗ</b>	0.000 0.000
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9C IVPe	00000000000000000000000000000000000000	OCCMB OCSP OCSP	OCCMB OCCSP OCCSP	OCCMB OCCNP OCCNP	OCCMB OCCMB OCCNP	OCCMB OCCNP OCCNP	
Test Name		<b>A</b> S <b>A</b> S <b>A</b> S <b>S</b> S	S S S S S S S S S S S S S S S S S S S	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	H H H H H	1111	
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	ISC				
	Unit	99999999999999999999999999999999999999	99999999999999999999999999999999999999		99000000000000000000000000000000000000
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	Meas	ដ	ដ ដ	t 111	# #### ###############################
26-120-6 01 60-	Analysis Date	6-oct-199 6-oct-199 6-oct-199 6-oct-199 6-oct-199 6-oct-199		6-0ct-1996 6-0ct-1999 6-0ct-1999 4-0ct-1999 4-0ct-1999 4-0ct-1999 4-0ct-1999	4-0 ct - 1999 33-0 ct - 1999 31-0 ct - 1999
	Method Code	SILSSILS	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SSSSSSS SSSS	PROPERTY OF THE PROPERTY OF TH
inan aana	/ Spike	8888888			
7	OC TYPE	00000000000000000000000000000000000000	O O O O O O O O O O O O O O O O O O O	OCCOS COCOS	
	Test Name	88888888		22222222222222222222222222222222222222	26DNT 123TCB 124CB 12DDPH 13DBD4 13DBD4 13DCLB 246TCP 246TCP 24DNP 24DNP 24DNT
	F Samp No				
	Lot	PWG		HMd	PWI
	Lab	<b>8</b>		80	80

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

F Samp No

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Prog	11111	rii rii		LIII	LIT	LIT	rii.	111		LIT	irii Ti	LIT	LIT	LIT		ii.	rii.	LIT	LIT LIT	LIT	ii.		1 1
ISC		ı	<b>c</b> c		<b>x</b>		æ									٤	4						
Unit	00000	999 000 000 000	0 0 0 0 0 0 0 0 0 0 0 0	9999 0000	9 9 9 9 0 0 0 0 0	000	999		200	000	000	990 000	0 0 0 0 0	000 000	990	900	999		0 0 0 0 0 0	000	999	200	,
Value	0.320 0.035 0.240 0.240	86.00	556	388	86.00	.93	107	266		.03	. 19	.36	84.	33	9	34.	185	36		522	986	320	) ) ;
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Analysis Date	44444	3-oct-19 3-oct-19 3-oct-19	3-oct-19 3-oct-19 3-oct-19	3-0ct-19 3-oct-19 3-oct-19	3-oct-19 3-oct-19 3-oct-19	3-oct-19 3-oct-19	3-oct-19 3-oct-19	3-0ct-19 3-oct-19 3-oct-19	3-0ct-19 3-oct-19	3-oct-19 3-oct-19	3-oct-19 3-oct-19	3-oct-19 3-oct-19	3-oct-19 3-oct-19	3-oct-19 3-oct-19	3-oct-19	3-0ct-19	3-oct-19	3-oct-19	3-oct-19 3-oct-19	3-oct-19	3-oct-19	3-0ct-19 3-oct-19 3-oct-19	 
Method Code	LM25 LM25 LM25 LM25 LM25	LM25 LM25 LM25	LM25 LM25 LM25	LM25 LM25 LM25	LM25 LM25 LM25	LM25 LM25	LM25	LM25	LM25 LM25	LM25 LM25	LM25 LM25	LM25 LM25	LM25 LM25	LM25 LM25	LM25	LM25	LM25	LM25	LM25 LM25	LM25	LM25	LM25 LM25 LM25	: !
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QC Type	OCMB OCCAB OCCAB	OCKB OCKB				OCMB OCMB				OC WB	S S S S S S S S S S S S S S S S S S S			OC WB	O CWB					COMB	COMB		j j
Test Name	26DNT 2CLP 2CLPD4 2CNAP 2FBP	ZFP ZMNAP ZMP	ZNANIL ZNP 33DCBD	SNANIL	46DN2C 4BRPPE 4CANIL	4CL3C 4CLPPE	4MP 4NANIL	ABHC	ALDRN ANAPNE	ANAPYL	ATZ B2CEXM	B2CIPE B2CLEE	B2EHP Baantr	BAPYR BBFANT	BBHC	BENSLF	BGHIPY	BZALC	CHRY CL682	CL6CP	CLDAN	CPMSO	1 , , , , , , , , , , , , , , , , , , ,

Chemical Quality of Report Installation: Badge AP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Prog				LIT	LIT	rit Lit	LIT	LIJ	ii.	ill.	LIT	LIT	LIT	LIT	LIT	LIT	LIT	LIT	LIT		LII	LII	LIT	LIT	TI.		LIT
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Analysis Date	03-oct-1991 03-oct-1991 03-oct-1991 03-oct-1991 03-oct-1991	3-oct-19	3-0ct-19 3-oct-19 3-oct-19	3-oct-19 3-oct-19	3-oct-19 3-oct-19	3-oct-19 3-oct-19	3-oct-19 3-oct-19	3-oct-19 3-oct-19	3-oct-19	3-oct-19	3-oct-19 3-oct-19	3-oct-19	3-oct-19	3-oct-19	3-oct-19	3-oct-19	3-oct-19	3-oct-19 3-oct-19	3-oct-19	3-oct-19 3-oct-19	3-oct-19	3-oct-19 3-oct-19	3-oct-19	3-oct-19 3-oct-19	3-oct-19	3-oct-19	3-oct-19
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Test Name	DBAHA DBCP DBHC DBZFUR DCPD	DEPD4	DLDRN DMP	DNBP	DNOPD4 ENDRN	ENDRNA ENDRNK	ESFS04 Fant	FLRENE	HPCL	ICDPYR	ISODR ISOPHR	LIN	MIREX	MLTHN	8 N	NBDS	NNDNPA	OXAT	PCB016	PCB232	PCB242	PCB248 PCB254	PCB260	PCB262 PCP	PHANTR	PHENOL	PPDDD
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Unit	990 000 000 000 000 000 000 000 000 000	TON NCT NCT NCT	Ton ner ner ner	990 090 090 090 090 090 090 090 090 090
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Test Name	PPDDT PRTHN PYR SUPONA TYPD14 TYPD14 13DBD4 2CLPD4 2FP DEPD4 DNOPD4 NBD5 TRPD14 13DBD4 13DBD4 13DBD4 2CLPD4 2FP DNOPD4 NBD5 PREND6 TRPD14 TRPD	NH3N2 NH3N2 NH3N2 NH3N2	N2KJEL N2KJEL N2KJEL N2KJEL	1231CB 1241CB 12DCLB 12DPH 13DBD4 13DCLB 14DCLB 2451CP 2461BP 2461CP 2461CP 2461CP 2461CP 2461CP
F Samp No	P9155000 P9155000 P9155000 P9155000 P9155000 P9165000 P9165000 P9165000 P9165000 P9165000 P9165000 P9165000 P9165000			
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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F Samp No	Samp 918000 918000 918100	P9181000 P9182000 P9182000 P9182000 P91830000 P91840000 P91840000 P91850000 P91850000 P91850000 P91860000 P91860000
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality C 51 Report Installation: Badger TMP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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F Samp No		919000 919000 919000	919100 919100 919100 919200 919200	9019300 9019300 9019300 9019300 919400	P9195000 P9195000 P9195000 P9196000 P9196000 P9196000 P9197000	919700 919700 9198800 9198800 919900 919900

Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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ISC					
Unit	0000 0000 0000	0000 0000 0000	00000	00000	000000000000000000000000000000000000000
Value	2.500 10.500 19.200 20.800	0.449 0.745 8.590 10.600	0.467 2.000 13.200 14.700	0.500 1.940 14.300	0.80 0.80 0.80 0.80 0.80 0.80 1.224 1.227
Meas Bool	ដ	ដ	ដ	ដ	ב ב ב בבבבבבב
Analysis Date	31-oct-1991 31-oct-1991 31-oct-1991	28-oct-1991 28-oct-1991 28-oct-1991 28-oct-1991	07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991	29-oct-1991 29-oct-1991 29-oct-1991 29-oct-1991	330-0 300-0 300-0
Method	0 0 0 0 0 0 0 0	3020 3020 3020 3020	3021 3021 3021 3021	<b>0000</b>	
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9C TYP	OCMB OCSP OCSP	OCMB OCSP OCSP	QCMB QCSP QCSP	OCMB OCSP OCSP	CONTRACTOR OF CO
Test Name	7 7 8 8 8 8 8 8	0 0 0 0 0 0 0 0	8888	1111	S S S S S S S S S S S S S S S S S S S
F Samp No					
Tot	PXC	PXD	PXE	PXF	PX S

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Chemical Quality ( ) Report Installation: Badge (P. WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

Prog		1111	111111111	. HHHH	11111	11111	11111	####### ######## #####################
ISC								
Unit	99999999999999999999999999999999999999	0000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000	0000	0000	000000000000000000000000000000000000000
Value	2170.000 2170.000 2.340 15.900 97.400 103.000 664.000	0.050 0.095 0.502 0.525	22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	2955	0.449 0.739 12.800 13.000	0.467 1.890 1.260 14.600	0.000 2.170 14.100 15.400	0.80 0.880 0.880 0.4427 0.4227 0.4227
Meas	Lī	LI	r rri	1 5	r1	ក្ន	ដ	
Analysis Date	30-oct-1991 30-oct-1991 30-oct-1991 30-oct-1991 30-oct-1991 30-oct-1991	17-oct-1991 17-oct-1991 17-oct-1991 17-oct-1991	10-oct-1991 10-oct-1991 10-oct-1991 10-oct-1991 10-oct-1991 10-oct-1991	2-oct-199 2-oct-199 2-oct-199 2-oct-199	22-oct-1991 22-oct-1991 22-oct-1991 22-oct-1991	24-oct-1991 24-oct-1991 24-oct-1991 24-oct-1991	24-oct-1991 24-oct-1991 24-oct-1991 24-oct-1991	31-oct-1991 31-oct-1991 31-oct-1991 31-oct-1991 31-oct-1991 31-oct-1991
Method	7812 7812 7812 7812 7812 7812	0000 KKKK	16423 16423 16423 16423 16423 16423	6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3020 3020 3020 3020	3021 3021 3021 3021	<b>ೲ</b>	0.0512 0.0512 0.0512 0.0512 0.0512 0.0512
pe / Spike	\$00.000 \$000.000 115.000 100.000	0.000 0.100 0.500 0.500	75.000 75.000 75.000 75.000 75.000 75.000 75.000	8888	0.000 1.0000 16.000	0.000 2.000 16.000 16.000	0.000 2.000 16.000 16.000	00000000
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Unit	99999999999999999999999999999999999999	9 9 9 9 9 9 9 9 9 0 0 0	00000		0000000	000000	9999 9999 9999	000000000000000000000000000000000000000	150 150 150 150
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Analysis Date	1-oct-199 1-oct-199 1-oct-199 1-oct-199	1-oct-199 1-oct-199 1-oct-199 1-oct-199	1-oct-199 1-oct-199 1-oct-199	1-00t-199 1-00t-199 1-00t-199 1-00t-199		1-0ct-199 1-0ct-199 1-0ct-199 1-0ct-199	17-oct-1991 17-oct-1991 17-oct-1991 17-oct-1991	11-0ct-1991 11-0ct-1991 11-0ct-1991 11-0ct-1991 11-0ct-1991 11-0ct-1991	14-oct-1991 14-oct-1991 14-oct-1991 14-oct-1991
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Chemical Quality ol Report Installation: Badge AP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Test Name	8888888888888	1231CB 1201CB 120CCB 130CCB 130CCB 130CCB 130CCB 246TCP 240CCB 240CCB 260CB 260CCB 260
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Method	LM23 LM23	LM23	LM23	LM23	LM23	LM23	LM23	LAZ3	LM23	LM23	LM23	LM23	LM23	LM23	LAZZ LYZZ	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	LM23	1.M23	LM23	LM23	LM23	1.M23	LM23	LM23	LM23	;
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Meas Bool	5	LI	בבבב ב	LI	LT	LI	LT
Analysis Date	16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991 16-oct-1991	05-nov-1991 05-nov-1991 05-nov-1991 05-nov-1991 05-nov-1991	11-oct-1991 11-oct-1991 11-oct-1991 11-oct-1991 11-oct-1991 11-oct-1991 11-oct-1991	04-nov-1991 04-nov-1991 04-nov-1991 04-nov-1991	04-nov-1991 04-nov-1991 04-nov-1991 04-nov-1991	01-nov-1991 01-nov-1991 01-nov-1991 01-nov-1991	22-oct-1991
Method	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3812 3812 3812 3812 512	LW23 LW23 LW23 LW23 LW23 LW23 LW23	8888 8888 8888	3020 3020 3020 3020	3021 3021 3021 3021	49
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oc Type		OCMB OCSP OCSP OCSP OCSP	00000000000000000000000000000000000000	OCMB OCSP OCSP	QCMB QCSP QCSP	OCMB OCSP OCSP	QCMB
Test Name	ETBD10 MEC6D8 12DCD4 CD2CL2 MEC6D8 12DCD4 12DCD4 12DCD4 12DCD4 12DCD4 12DCD4 CD2CL2 CD2CL2 ETBD10 MEC6D8 MEC6D8 MEC6D8	****	2440NT 2440NT 2440NT 2660NT 2660NT 760NT 760NT 760NT	A A A A A A A A A A A A A A A A A A A	ល ស ល ល ល ស ស ស ស	20 20 20 20 20 20 20 20 20 20 20 20	HG
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Unit	0000	0000	000000000000000000000000000000000000000	UGL UGL UGL
Value	0.090 0.515 0.525	0.500 1.450 11.900 12.500	0.803 0.803 0.803 0.803 0.427	0.100 0.385 0.922
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Analysis Date	22-oct-1991 22-oct-1991 22-oct-1991	04-nov-1991 04-nov-1991 04-nov-1991 04-nov-1991	02-nov-1991 02-nov-1991	29-oct-1991 29-oct-1991 29-oct-1991
Method	449 449	66666	72777777777777777777777777777777777777	8 8 8 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
/ Spike	0.100	0.000 16.000 16.000	0.000000000000000000000000000000000000	0.000
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Unit	UGL				990 990 990	990 090 090	100000				2222	222
Value	1.030	86.38	16.80 341.00	146370	1.000 1.860 19.800 20.200	5.000 9.780 74.600 78.500	5.800 2.400 11.200 63.000	457.80	0446		0.000	0 4 6 0 6 9
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Method Code	800	S118	S1 S1 S1	8812 8812 8812 8812 8812	KF17 KF17 KF17	KT07 KT07 KT07	UM25 UM25 UM25 UM25 UM25	UM255 UM255 UM255	UM25 UM25 UM25	UM25 UM25 UM25	UM25 UM25 UM25	UM25 UM25 UM25
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oc Type	QCSP	OCCAP OCCAP OCCAP	OCONB COSP COSP COSP	OCCSP COS	OCMB OCSP OCSP	OCMB OCSP OCSP	OCCMB OCCMB OCCMB				OCCAB OCCAB OCCAB	OCSP OCMB OCMB
Test Name	НС	88888	៩៩៩៩	; # # # # # # # # # # # # # # # # # # #	TIIN	\$004 \$004 \$004	123TCB 124TCB 12DCLB 12DPH 13DBD4	130CLB 140CLB 236TCP 245TCP	24618F 246TCP 24DCLP 24DMPN	24DNT 26DNT 26DNT	2CLPD4 2CNAP 2FBP	2FP 2MNAP 2MP
F Samp No												
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Method Code	UM25 UM25 UM25 UM25	UM25 UM25	UM25 UM25	UM25 UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Test Name	2NANIL 2NP 33DCBD 35DNA	3NANIL 3NT	4BRPPE	4CL3C	4CLPPE 4MP	4NANIL	ABHC	ALDRN	ANAPNE	ANTRO	ATZ ROCEXM	BZCIPE	B2CLEE B7FH5	BAANTR	BAPYR	BBHC	882P	BENZOA	BCHIPY	BRMCIL	BZALC	CL6BZ	CLECP	CLEET	CPMS	CPMSO	DBAHA	DBCP	DBZFUR	DCPD DDVP DEP
F Samp No																														

Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

F Samp No

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Method	UM25 UM25	UM25 UM25	UM25	UM25 UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UMZS	UM25	UM25	UMZS	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	13K25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25	UM25
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Test Name	DEPD4	DLDRN	DMMP	ABNO DNBP	DNOP	ENDRN	ENDRNA	ENDRNK	FANT	FLRENE	HCBD	HPCLE	ICDPYR	ISOPHR	LIN	MEXCLR	MIREX	NAP	NB.	NBDS	N N N N N N N N N N N N N N N N N N N	NNDPA	OXAT	_^	~	PCB242		<b>``</b>	PCP	PHANTR	PHENOL	PPDDD	PPDDT	PRTHN	PYR	TRPD14	TXPHEN

Chemical Quality (D) Report Installation: Badge (P, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Value	104.000 68.700 90.800 72.100 73.600 159.000 138.000 11.200 71.200 74.600 163.000	315.000 315.000 3100.000 3100.000 38000.000 1040.000 40600.000	1.200 95.300 95.300 689.000 11.040 10.500 96.600 96.600 96.800 1350.000	5.000 10.100 75.800
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality of Report Installation: Badge AP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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/ Spike	000000	000000		0000000	00000000000	
QC Type						
Test Name	2CNAP 2FBP 2FP 2MNAP 2MP	2NP 33DCBD 35DNA 3NANIL 3NT 46DN2C	4BRPPE 4CANIL 4CL3C 4CLPPE 4MP 4MNNIL	4NP ABHC AENSLF ALDRN ANAPYL ANTRC	AIZ B2CEXM B2CIPE B2CLEE B2CLEE BAPYR BBFANT BBFANT	BENSOF BENSOF BENSOF BERICO CLESS CLEST CLOAN CPMSO CPMSO CPMSO CPMSO DBAHA DBCP
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Test Name	SUPONA TXPHEN 130BD4 246TBP 26FBP 26FBP 26FBP 26FBP 27FBP 26FBP 27FBP
F Samp No	P910010188 P910010188 P910010188 P9100100188 P91001015 P910015

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Prog			11111
ISC			
Unit		99999999999999999999999999999999999999	000 000 000 000
Value	12.000 15.000 16.2000	0.010 0.016 0.016 0.055 1.080 0.080 0.080 0.080 0.080 0.080	1.000 1.920 20.000 20.300
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Analysis Date	01	09-nov-1991 09-nov-1991 09-nov-1991 09-nov-1991 09-nov-1991 09-nov-1991 09-nov-1991 09-nov-1991 09-nov-1991	25-oct-1991 25-oct-1991 25-oct-1991 25-oct-1991
Method	1225 12425 1	1008 1008 10	KF17 KF17 KF17
/ Spike	www.www.www.www.www.ww.ww.ww.ww.ww.ww.w	00000000000000000000000000000000000000	0.000 20.000 20.000
QC Type			OCMB OCSP OCSP
Test Name	PHEND6  130804  24678P  2761704  2761704  2761704  08055  130804  27678P	NNDMEA NNDMEA NNDMEA NNDMEA NNDNPA NNDNPA NNDPA NNDPA NNDPA	HHHH HHHH HHHH
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	Value	5.000 8.950 75.600 82.400	0.320 0.330 0.320 0.320 0.530 0.530 0.530	نتنود	1000	ام ص ف ف	146844	<i><b>euuuaau</b></i>	iu-io-iu.	066444
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rol Report IAP, WI (BA) 1-89 to 5-oct-92	Analysis Date	22-oct-1991 22-oct-1991 22-oct-1991 22-oct-1991	24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991 24-0ct-1991	4-oct-199 4-oct-199	4-000-1994-4-000-1994-4-1994-1999	4-oct-199 4-oct-199 4-oct-199 4-oct-199	4-0ct-199 4-oct-199 4-oct-199 4-oct-199 4-oct-199	4-oct-199 4-oct-199 4-oct-199 4-oct-199 4-oct-199	44-0000 44-0000 4-000000000000000000000	4-0ct-199 4-0ct-199 4-0ct-199 4-0ct-199 4-0ct-199
lity Control Badger AAP, e: 01-jan-89	Method	KT07 KT07 KT07	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LM23 LM23 LM23	LM23	LM23 LM23 LM23	LM23 LM23 LM23 LM23 LM23	LM23 LM23 LM23 LM23 LM23	LENZ33 LENZ33 LENZ33 LENZ33 LENZ33 LENZ33	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
emical Qua tallation: Date Rang	/ Spike	0.000 80.000 80.000		8888		8888	88888	8888888		8888888
Che Inst Analysis	oc Type	QCMB QCSP QCSP							OCCAR POCOS	
	Test Name	\$00 \$004 \$004	1117CE 1127CE 11DCE 11DCLE 12DCE 12DCLE 12DCLE 13DCLE 13DCLE	13DMB 2CLEVE 4BFB	ACROLN ACRYLO BRDCLM	C13DCP C2AVE C2H3CL C2H5CL	CERS CCL3F CCL4 CD2CL2 CH2CL2 CH3BR	CH3CL CHBR3 CHCL3 CLC6H5 CS2 DBRCLM	ETBD10 ETC6H5 MEC6D8 MEC6D8	MIBN MIBK STYR T13DCP TCLEA TCLEE
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Value	3.500 1.346 1.620 1.620 1.680	2.500 24.650 243.8650 181.000 2.000 2.000	0.803 0.803 0.803 0.803 0.4427 0.4227
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Analysis Date	24-oct-1991 24-oct-1991 24-oct-1991 24-oct-1991 24-oct-1991 24-oct-1991	30-oct-1991 30-oct-1991 30-oct-1991 30-oct-1991 30-oct-1991 30-oct-1991 30-oct-1991	166-1000 166-10
Method Code	LM23 LM23 LM23 LM23 LM23	LW23 LW23 LW23 LW23 LW23 LW23	
Type / Spike	wwwww	255.000 200.000 200.000 00000 00000	00000000000000000000000000000000000000
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Method	3812 3812 3812 3812	6666 688 688 688 688 688 688 688 688 68	3020 3020 3020	3021 3021 3021 3021	8888 8888 8888	<b>0000</b>	KT07 KT07 KT07	KF17 KF17 KF17	.  33333333333333333333333333333333333
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Chemical Quality C 18 Report Installation: Badgel P, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality C bl Report Installation: Badgel P, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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OC TYPE	QCSP QCSP	OCMB OCSP OCSP OCSP	OCMB OCSP OCSP	TO COCO CO COCO COCO COCO COCO COCO COC	
Test Name	PB BB	ASS ASS ASS	H H H C C C C C C C C C C C C C C C C C	NA NA SA SA SA SA SA SA SA SA SA SA SA SA SA	i
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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	Value	97.500	0.941 2.260 2.870 3.140	0.510 1.230 10.200 10.200 27.100	222	0.000	1.940 0.080 0.107 3.270 4.650	2.500 4.880 23.000 25.700	88888	0.032 0.0220 0.0220 2.520 2.000 2.000	10.044 10.044	888
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7 - 120 - 5 - 52 - 52	Analysis Date	24-nov-1991 24-nov-1991	14-nov-1991 14-nov-1991 14-nov-1991 14-nov-1991	18-nov-1991 18-nov-1991 18-nov-1991 18-nov-1991 18-nov-1991	7-nov-199 7-nov-199 7-nov-199	7-nov-199 7-nov-199 7-nov-199	17-nov-1991 17-nov-1991 17-nov-1991 17-nov-1991	12-nov-1991 12-nov-1991 12-nov-1991 12-nov-1991	2-nov-199 2-nov-199 2-nov-199 2-nov-199 2-nov-199	07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991	-nov-144 -nov-199 -nov-199 -nov-199	-nov-199 -nov-199 -nov-199
Mothod	Code	JS12 JS12	3023 3023 3023 3023	LW27 LW27 LW27 LW27	LNO8	TROSS TROSS TROSS	LNO8 LNO8 LNO8 LNO8 LNO8	LW23 LW23 LW23 LW23	00000	LM255 LM255 LM255 LM255 LM255 LM255	LM25 LM25 LM25	LM25 LM25 LM25
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7-5	20 Type	QCSP QCSP	OCKB OCSP OCSP	OCSP OCSP OCSP OCSP	OCSP OCSP		CCSP CSP CSP CSP CSP CSP CSP CSP CSP CSP	OCCAB OCCAP OCCAP	OCCAP CCS PP	SCHER B B B C C C C C C C C C C C C C C C C		B B B C C C C C C C C C C C C C C C C C
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	F Samp No											
	회	QFX	OFZ	QGA	890			<b>8</b>		960		
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Value	1.400	0.570	0.055	2.800	0.440	3.300	0.032	0.098	3.100	1.100	1.600	3.000	0.340	0.800	200	0.930	0.170	0.240	3.100	300	1.300	1.300	0.041	0.033	0.710	0.0	0.440	0.360	0.480	1000	0.310	1.300	3.800	2001	0,180	0.130	0.032	0.032	0.520	1.800	0.680
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Method	LM25 LM25	LM25	LM25	LM25	1220	LM25	LM25	LM25	LM25	LM25	1.M25	LM25	LM25	LM25	1.M25	LM25	LM25	LM25	LM25	LAZD	LM25	LM25	LM25	LM25	LM25	LMZ2	LM25	LM25	LM25	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LM25	LM25	LM25	1227	LM25	LM25	LM25	LMZS	LM25	LM25	LMZ5
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Test Name	24DNP 24DNT	26DNA 26DNT	2CLP	2CLPD4	25NAF	25.5	2MNAP	2MP	ZNANIL	237CB2	350KA	SNANIL	JNT	46DN2C	ACANTE	4CL3C	4CLPPE	4MP	ANANIL	42.6	ABHC	ALDRN	ANAPNE	ANAPYL	ANTRC	ATZ BOOMA	B2CIPE	BICLEE	BZEHP	BAANIK	BBFANT	BBHC	882P	BENOTE	RCHIPY	BKFANT	BZALC	CHRY	C1.6CP	CLEET	CLDAN
Samp No																																									

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Prog	LIT	LIT	LIT	LIT	- F	111	LIT	LIT	LIT	LIT	111	111	LIT	LIT	LIT	LIT	LIT	LIT	LIT	111.	111	11.	111	LIT	LIT	LIT	LIT	LIT	LIT	11.	111	11.	LIT	LIT	LIT	LIT	LIT.	111	111	LIT	LIT	LIT.	LIT
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Analysis Date	07-nov-1991 07-nov-1991	-nov-19	-nov-19	-nov-19	VI-VOU-	-nov-19	-nov-19	-nov-19	-nov-19	-nou- 19	-1004-19	6[-xou-	-nou-	-nov-19	-nov-19	-nov-19	-nov-19	-nou-	-nov-19	-100L	01-00-	P - 204-	-nov-19	-nov-19	-nov-19	-nov-19	-nov-19	-nov-19	-nov-19	VI-VOU-	2100cl	-nov-	-nov-19	-nov-19	-nov-19	-nou- 19	-1004-	-1004- -1004-	-nov-19	-nov-19	-nov-19	-nov-19	-nov-19
Method	LM25 LM25	LM25	LM25	LM25	1370 1270	LM25	LM25	LM25	LM25	LM25	LM25	1.M25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	LM25	1220	1.M25	LM25	1 K 2 C	1,X7,5	LM25	LM25	LM25	LM25	LM25	1 M 2 C	1.M25	LM25	LM25	LM25	LM25							
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SC TYPE	<b>OCMB</b>	OCWB COWB	OCMB	OCMB		OCE BE	OCMB	QCSP	OCMB	OCMB		OCMB	OCSP	OCMB	QCMB	QCMB	OCMB	OCMB	OCMB				OCKB	OCMB	OCMB	OCMB	OCMB	OCMB	SCA B	CCAB	בר ה בר ה בר ה	OK S	OCMB	OCMB	QCMB	OCMB	OCKB OCKB		C AB	OCMB	ОСМВ	OCMB	QCSP QCSP
Test Name	CPMS	CPMS02	DBCP	DBHC	אס אסטר	DDVP	DEP	DEPD4	DITH	DEDRA	7 E C	DNOP	DNOPD4	ENDRN	ENDRNA	ENDRNK	ESFS04	FANT	FLRENE	HCBO	1700	100078	ISODR	ISOPHR	LIN	MEXCLR	MIREX	MLTHN	NAP	9 2	NEDCO	ADNONN	NNDPA	OXAT	PCB016	PCB221	PCB232	PCB242	PCB254	PCB260	PCB262	PCP	PHEND6
F Samp No																																					-						

Chemical Quality of pl Report Installation: Badge P, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Unit	99999999999999999999999999999999999999	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000
Value	0000400440	16.200 6.200 6.190 6.190 6.190 1.120 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200	R1-446100040	444466	UNION
Meas Bool	N LLLLLLL		ביב	T11	เรา
Analysis Date	7-nov-1999 7-nov-1999 7-nov-1999 7-nov-1999 7-nov-1999 7-nov-1999	07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991	7-nov-1999 7-nov-1999 7-nov-1999 7-nov-1999 7-nov-1999 7-nov-1999	7-1-1999 7-1-1999 7-1-1999 7-1-1999 7-1-1999	7-nov-199 7-nov-199 7-nov-199 7-nov-199
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/ Spike	000000000	www.www.www.ww.ww.ww.ww.w	0000000000		9000
oc Type	OCCAMBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB				
Test Name	PHENOL PPDDD PPDDD PPDDT PPTHN PYR SUPONA TRPD14 TXPHEN	2461BP 25CLPD4 27FP 27FP 27FP 27FP 27FP 27FP 27FP 27FP	PHEND6 13DBD4 13DBD4 246TBP 2CLPD4 2FBP 2FP DNOPD4 NND5	246TBP 13DBD4 13DBD4 246TBP 2CLPD4 2FBP DEPD4 000D4	NBD5 PHEND6 TRPD14 13DBD4 246TBP
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Unit	990 990 990 990 990 990 990 990 990 990		0000
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Analysis Date	07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991	27-0 27-0 27-0 27-0 27-0 27-0 27-0 27-0	7-oct-199 7-oct-199 7-oct-199
Method	PROPERTY OF THE PROPERTY OF TH	CONTROL OF THE CONTRO	LAZ3 LM23 LM23
/ Spike			3888
OC TYPE			OCCMB COMB COMB COMB
Test Name	2FP DEPD4 DNOPD4 NBD5 PHEND6 TARBD14 130BD4 246TBP 27FBP 2FP DEPD4 DNOPD4 NBD5 TRPD14	1111CE 1111CE 1110CE 1110CE 12DCLE 12DCLE 13DCLE 13DCLE 13DCLE 13DCLE C2LEVE C2HSCL C2HSCL C2HSCL CCLS CCLS CCLS CCLS CCLS CCLS CCLS	CLC6H3 CS2 DBRCLM DCLB
F Samp No	D9101112 D9101112 D9101112 D9101112 D91011117 D91011117 D91011117 D91011117 D91011117 D91011117		
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Unit		000 000 000 000
Value	8.04040100000000000000000000000000000000	0.200 0.330 0.270 0.490 5.500
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Method		LM23 LM23 LM23 LM23
/ Spike		000000
QC Type		O O C C W B B B B B C C C C C C C C C C C C
Test Name	ETBD10  ETCEHS  MECGENS  MIRC GHS  MIRC GHS  MIRC GHS  TIJJDC  TIJJDC  TOCICE	1117CE 1127CE 110CE 110CLE 120CD4
F Samp No	D91010020 D91010025 D91010002 D91010002 D91010004 D91010006 D91010006 D91010008 D9101010 D9101010 D9101010 D91010102 D9101012 D910102 D910102 D910102 D910102 D910102 D910102 D910102 D910102 D910102 D910102 D910102 D910102	
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Chemical Quality q pl Report Installation: Badge P, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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	Meas			ដ	ដ	LT	LT	LT	LT
-69 to 5-0ct-92	Analysis Date	88-00t-1999 88-00tt-1999 88-00tt-1999 88-00tt-1999 88-00tt-1999	28-0ct-1991 28-0ct-1991 28-0ct-1991 28-0ct-1991 28-0ct-1991 28-0ct-1991 28-0ct-1991 28-0ct-1991	04-nov-1991 04-nov-1991 04-nov-1991 04-nov-1991	29-oct-1991 29-oct-1991 29-oct-1991 29-oct-1991	22-nov-1991 22-nov-1991 22-nov-1991 22-nov-1991	09-nov-1991 09-nov-1991 09-nov-1991 09-nov-1991	25-nov-1991 25-nov-1991 25-nov-1991 25-nov-1991	26-nov-1991 26-nov-1991
ע	Method	TELLER SERVENCE SERVE		KF17 KF17 KF17	KT07 KT07 KT07	3021 3021 3021 3021	0000 4444	<b>6666</b>	89 89
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Allatysts	QC TYPE			OCSP OCSP OCSP	OCSP OCSP OCSP	OCSP OCSP OCSP	P P P P P P P P P P P P P P P P P P P	OCCAB OCSP OCSP	<b>OCMB</b> QCSP
	Test Name	CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10	120004 120004 120004 120004 120004 120004 120006 ETB010 MEC608	TINN	\$004 \$004 \$004	02 02 03 03 04 04 04	9 9 9 9 9 9 9	1111	AS AS
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	Lot	90E		550	<b>В</b>	8	663	<b>S</b> GK	790
	Lab	<b>8</b>		<b>8</b>	UB	80	80	UB	80

Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Analysis Date	26-nov-1991 26-nov-1991	200	25-nov-1991 25-nov-1991 25-nov-1991 25-nov-1991	29-oct-1991 29-oct-1991 29-oct-1991 29-oct-1991
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/ Spike	25.000	00000000000000000000000000000000000000	0.000 1.000 16.000	0000
oc Type	QCSP QCSP	######################################	QCMB QCSP QCSP	
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Analysis Date	444444	9-00t-199 9-00t-199 9-00t-199	9-0ct-199 9-oct-199 9-oct-199	9-oct-199 9-oct-199 9-oct-199	9-oct-199 9-oct-199 9-oct-199 9-oct-199	9-0ct-1999-0ct-1999-0ct-1999	9-oct-199 9-oct-199 9-oct-199	9-oct-199 9-oct-199 9-oct-199	9-00t-199 9-00t-199	9-0ct-199 9-oct-199 9-oct-199	9-06t-199 9-06t-199 9-06t-199	9-oct-199 9-oct-199 9-oct-199	9-oct-199 9-oct-199	9-oct-199	9-0ct-199 9-oct-199 9-oct-199	9-0ct-199 9-oct-199 9-oct-199
Method	LM23 LM23 LM23 LM23 LM23	LM23	LM23 LM23 LM23	LM23 LM23 LM23	1,423 1,423 1,423	LW23	LM23 LM23 LM23	LM23 LM23	LM23	LM23	LM23 LM23 LM23	LM23 LM23 LM23	LM23 LM23	LM23	LM23	LM23 LM23
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Test Name	120CD4 120CE 120CLE 120CLP 130CLP	ABFB ABFB ABFB	ACROLN ACRYLO BRDCLM	C13DCP C2AVE C2H3CL	CZHSCL CGH6 CCL3F	CD2CL2 CH2CL2 CH3BR	CH3CL CHBR3 CHCL3	CLC6H5 CS2 DBBCTM	DCLB ETBD10	MECGD8 MECGD8	MIBK MIBK NBK	SIYR II3DCP ICLEA	TCLEE	120CD4 CD2CL2	MEC6D8 120CD4	CD2CL2 ETBD10 MEC6D8
E Samp No														910200	D9102004 D9102006	910200 910200 910200

Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Test Name	BB2P BENSLF BENZOA	BCHIPY	BZALC	CL6BZ	CLECP	CLEET	CPMS	CPMSO	CPMS02	DEAHA	DBRC	DBZFUR	DCPD	DDVP	DEP	DITH	DLDRN	DMP		DNOPD4	ENDRN	ENDRNA	ENDRNK	ESFS04	FLRENE	HCBD	HPCL	TODES	ISODR	ISOPHR	LIN	MINER	MLTHN	NAP	v C 9 0 2 2	NNDMEA	NUNDA	OXAT
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Test Name	DITH DEDRN DNP DNBP	DNOPD4 ENDRN	ENDRNK ESFS04	FANT	HCBD	HPCLE	ISODR	I SOPHR LIN	MEXCLR	MLTHN	NAP P	NBDS	NNOMEA NNONPA	NNDPA	PCB016	PCB221 DCR232	PCB242	PCB248	PCB260	PCB262	PCP	PHEND6	PHENOL	PPDDE	PPDDT	PYR	SUPONA	TXPHEN	130804 246TBP
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Chemical Quality of pl Report Installation: Badgel P, WI (BA) Analysis Date Range: 01~jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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F Samp No	D9103018 D9103018	0301 0301	0301	1080	0302	0302	2000	7000	3050	0302	0302	0302	70E0	7070	2000	0302	0302	0302	0302	0302	0302	2050	0302	7050	2020	0302	0302	0302	2060	7050	3000	0304	0304	0304	0304	0304	9070	4000	300	0306	0306	0306
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Test Name	3NANIL 3NT	46DN2C	40KFE 4CANIL	4CL3C	4CLPPE	4MP	41441	ABHC	AENSLF	ALDRN	ANAPNE	ANAPYL	ANTRC	ATZ	BZCEXM	52C1FE	52C155	DARMED	RAPVR	BBFANT	BBHC	BBZP	BENSLF	BENZOA	BCHIPY	BKFANT	BRMCIL	BEALC	24417	CL6CP	CLEET	CLDAN	CPMS	CPMSO	CPROC		DBHC	DBZFUR	DCPD	DDVP	DEPDA	DIMP	DITH	
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Test Name	DMMP DMP DNOP	ENDRN ENDRN	ENDRNK ESFS04	Fant Flrene	HCBD HPCL	HPCLE	ISODR	LIN	MIREX	MLTHN	NB NB	NBDS	NNONEA	NNDPA	DCB016	PCB221	PCB242	PCB248	PCB254 PCB260	PCP	PHEND6	PHENOL	PPDDE	PPDDT	PYR	SUPONA	TXPHEN	123TCB	120CLB 12DPH 12DPH
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Test Name	BENZOA BGHIPY BKFANT BRMCIL BZALC CHRY	CL682 CL6CP CL6ET CLDAN CPMS	CPMSO CPMSO2 CBAHA DBCP DBHC DBZFUR	DDVP DEPD DIMP DITH DLDRN	DMP DNBP DNOP ENDRA ENDRA ENDRA	ESFSO4 FANT FLRENE HCBD HPCL ICDPYR ISODR	LINCLR MEXCLR MIREX MITHN NAP NBDS NNDMEA NNDMEA
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality ( bl Report Installation: Badge AP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Test Name	112TCE 11DCE 11DCLE	1200E	12DCLP	13DCLB	13DMB	2CLEVE	4BFB ACET	ACROLN	ACRYLO	C13DCP	CZAVE	CZH3CL	25H2C C6H6	CCL3F	CCL4	CH2CL2	CH3BR	CH3CL	CHCL3	CLC6H5	CS2	DCLB	ETBD10	ETCOHS	MEC6H5	MEK	MIBK	STYR	TISDCP	TCLEA	TRCLE	XXLEN	12DCD4	ETBD10	MEC6D8 12DCD4
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Chemical Quality d bl Report Installation: Badge P, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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OB O Chemical Quality (1) Installation: Badge P, WI (BA)
Analysis Date Range: 01-jen-89 to 5-oct-92

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je: oz-jan-	Method Code	<b>6</b> X	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3020 3020 3020 3020	8 8 8 8 8 8 8 8	3021 3021 3021 3021	LW27 LW27 LW27 LW27	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	222222	22222222222222222222222222222222222222
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Test Name	245TCP 246TBP	246TCP	2400LF 240MDN	24DNP	24DNT	26DNA	Zednī			25RP	2FP	2MNAP	2MP	<b>2NANIL</b>	SNP	33DCBD	35DNA	SNANIL	AFINOC	4BRPPE	4CANIL	4CL3C	4CLPPE	4MP	4NANIL	424	AENSLE	ALDRN	ANAPNE	ANAPYL	ANTRC	MAGUCE BUCEAR	B2CIPE	BZCLEE	BZEHP	BAANTR	BAPYR		200 000 000 000	BENSLF	BENZOA	BGHIPY	BKFANI	,
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Test Name	CL682 CL682 CL6CP CL6ET	CPMSO CPMSO2 DBAHA	DBCP DBHC DBZFUR	DDVP DEP DEPD4	DITH DLDRN DMP	DNBP DNOP	ENDRN ENDRNA	ENDRNK ESFSO4 FRANT	FLRENE	HPCLE	ICDPYR ISODR	ISOPHR LIN	Mexclr Mirex	MLTHN NAP	NB NBD5	NNDMEA	NNDPA OXAT	PCB016 PCB221	PCB232 PCB242	PCB248 PCB254
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Chemical Quality C bl Report Installation: Badge P, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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-89 to 5-oct-92	Analysis Date	15-dec-1991 15-dec-1991 15-dec-1991 15-dec-1991 15-dec-1991	02-dec-1991 02-dec-1991 02-dec-1991 02-dec-1991 02-dec-1991 02-dec-1991 02-dec-1991	03-dec-1991 03-dec-1991 03-dec-1991 03-dec-1991 03-dec-1991	03-dec-1991 03-dec-1991 03-dec-1991 03-dec-1991	03-dec-1991 03-dec-1991 03-dec-1991 03-dec-1991	10-nov-1991 10-nov-1991 10-nov-1991 10-nov-1991 10-nov-1991 10-nov-1991 10-nov-1991 10-nov-1991 10-nov-1991 10-nov-1991	25-oct-1991
je: 01-jan	Method	LN08 LN08 LN08 LN08 LN08 LN08	LW23 LW23 LW23 LW23 LW23 LW23	LW27 LW27 LW27 LW27	KF17 KF17 KF17	KT07 KT07 KT07	0.000000000000000000000000000000000000	KF17
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-jan-89 to 5-oct-92

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Analysis Date	25-oct-1991 25-oct-1991 25-oct-1991	22-oct-1991 22-oct-1991 22-oct-1991 22-oct-1991	30-oct-1991 30-oct-1991 30-oct-1991	11-nov-1991 11-nov-1991 11-nov-1991	29-jan-1992 29-jan-1992 29-jan-1992 29-jan-1992	26-nov-1991 26-nov-1991 26-nov-1991 26-nov-1991
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Lab	0.8 0.0	80	<b>8</b>	80	<b>8</b> 0	<b>8</b> 0

\*\* End of Report - 7671 Records Found \*\*

## **EA LABORATORIES**

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- 1 to 3-0cr-38	Analysis Date	5-sep-199		5-sep-199	5-sep-199	5-sep-199	5-sep-199	5-8ep-199 5-8ep-199	5-8ep-199	5-sep-199	5-sep-199	5-8ep-199 5-8ep-199	5-sep-199	5-sep-199	5-86p-199 5-89p-199	5-sep-199	5-sep-199	5-sep-199	5- <b>sep</b> -199	5-8ep-199 5-8ep-199	5-sep-199	5-sep-199	5-sep-199	5-8ep-199 5-8ep-199	5-sep-199	5-sep-199	5-Bep-199 5-865-199	5-sep-199	5-sep-199	5-8ep-199	5-sep-199	5-sep-199	5-sep-199	5-8ep-199 5-8ep-199	5-sep-199	5-sep-199	5-sep-199 5-sep-199	5-sep-199	5-sep-199 5-sep-199	5-sep-199
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	Test Name	124TCB	13DCLB	14DCLB	246TCP	24DCLP	24DMPN	24DNF	26DNT	2CLP	2CNAP	2FBF	2NP	33DCBD	46DNZC ABDDDE	4CL3C	4CLPPE	4NP	ANAPNE	ANTRO	BZCEXM	B2CIPE	BACLEE	BZEHP	BAPYR	BBFANT	7288 7288	BKFANT	CHRY	CL6BZ	CLEET	DBAHA	0 0 0 0 0 0	ANC PRINC	DNO	FANT	FLKENE	ICDPYR	ISOPHR	NB
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 5-oct-92

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Unit		190 001 001 001
Value	4	1.750 5.040 3.010 3.220
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Analysis Date	22222555 2222255 2222255 2222255 2222255 2222255 2222255 2222255 2222255 2222255 2222255 2222255 2222255 2222255 222225 22225 22	25-sep-1991 25-sep-1991 25-sep-1991 25-sep-1991
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QC Type		OCMB OCMB OCMB
Test Name	NNDMEA NNDMEA NNDMEA NNDMEA NNDMEA NNDMEA NNDMEA PHEANTR PHEANTR PHENDG TRPD14 2789 PHENDG TRPD14 276718P 2768 PHENDG TRPD14 276718P 2768 PHENDG TRPD14 276718P 2768 PHENDG TRPD14 276718P 2768 PHENDG TRPD14 276718P 2768 PHENDG TRPD14 276718P 2768 PHENDG TRPD14 276718P 2768 PHENDG TRPD14 2768 PHENDG TRPD14 2768 PHENDG TRPD14 2768 PHENDG TRPD14 2768 PHENDG TRPD14 2768 PHENDG TRPD14 2768 PHENDG TRPD14 2768 PHENDG TRPD14 2768 PHENDG TRPD14 2768 PHENDG	1117CE 1127CE 11DCE 11DCLE
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 5-oct-92

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Test Name	2011 EVE AGENERAL MACCED BRUCLIN CC13DCP CC13DCP CC13DCP CC13CL CC13 CC13 CC13 CC13 CC13 CC13 CC	11TC
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77 - 70 - 7 - 77	Analysis Date	03-oct-1991 03-oct-1991	3-oct-199 3-oct-199	3-oct-199	3-oct-199	3-oct-199	3-0ct-199 3-0ct-199	3-oct-199	3-oct-199	3-oct-199	3-oct-199	3-oct-199	3-0ct-199 3-oct-199	3-oct-199	3-oct-199	3-oct-199	3-oct-199	3-oct-199	3-00t-199 3-00t-199	3-0ct-199	3-oct-199	3-oct-199	3-oct-199	3-oct-199	3-0ct-199	3-oct-199	3-oct-199	3-oct-199	3-oct-199	3-0ct-193	3-oct-199	3-oct-199	3-oct-199	3-oct-199	3-00t-199	3-oct-199	3-oct-199	3-oct-199	3-oct-199	3-oct-199	3-00t-199 3-00t-199	3-oct-199	3-oct-199
400	Method Code	LM26 LM26	LM26	LM26	LM26	LM26	1.M26	LM26	LM26	LM26	LM26	LM26	1.M26	LM26	LM26	LM26	LM26	LM26	97WT	1.M26	LM26	LM26	LM26	LM26	LM26	LM26	LM26	LM26	LM26	1 20 6	LM26	LM26	LM26	LM26	1226	1.M26	LM26	LM26	LM26	LM26	LAZE	LM26	LM26
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	Test Name	112TCE 11DCE	120CLE	12DCE	12DCLE	12DCLP 2CT EVE	4BFB	ACROLN	ACRYLO	BRDCLM	Clabor	CZH3CL	CEHE	CCL3F	CCL4	CH2CL2	CH3BR	CHICL	SEE C	CLCAHS	DBRCLM	ETC6H5	MEC6D8	MEC6H5	TISDCP	TCLEE	TRCLE	12DCD4	4BFB	12000	4BFB	MEC6D8	12DCD4	4BFB	AECODS 127CT	ARFR	MECEDB	12DCD4	48FB	MEC6D8	12DCD4	MEC6D8	12DCD4
	F Samp No	MethBlk MethBlk	Methblk	MethBlk	MethBlk MothBlk	Methblk	Methalk	MethBlk	<b>MethBlk</b>	MethBlk	MethBlk	Methblk	Methalk	MethBlk	MethBlk	MethB1k	MethBlk	Methblk	Methalk	Methalk	MethBlk	MethBlk	MethBlk	MethBlk	Methbik	MethBlk	MethBlk	P9161000	P9161000	P9161000	P9162000	P9162000	P9163000	P9163000	P9163000	P9164000	P9164000	P9165000	P9165000	P9165000	P9166000	P9166000	P9167000
	Lot	CYP																																									

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Analysis Date	03-oct-1991 03-oct-1991 03-oct-1991 03-oct-1991 03-oct-1991 03-oct-1991	004-0000000000000000000000000000000000	44-44-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-
Method	00000000000000000000000000000000000000		0000000000
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F Samp No	P9174000 P9175000 P9175000 P9175000 P9176000 P9177000 P9177000 P9178000 P9178000 P9179000 P9179000	MethBlk MethBlk MethBlk MethBlk	Methelk Methelk Methelk Methelk Methelk	Methill Methill Methilk Methilk Methilk	Methods Method	Methblk Methblk Methblk Methblk Methblk	Metholk Metholk Metholk Metholk Metholk Polio300
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F Samp No	P9110300 P9110300 P91100400 P91100400 P91100500 P91110500 P9111600 P91111600 P91111700 P9111700 P91420000 P91420000 P91430000 P91430000 P91430000	MANAMANA WANA WANA WANA WANA WANA WANA W
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pl Report P, WI (BA) -91 to 5-oct-92	Analysis Date	04-oct-1991 04-oct-1991 04-oct-1991 04-oct-1991 04-oct-1991 04-oct-1991 04-oct-1991 04-oct-1991 04-oct-1991 04-oct-1991	04-00000000000000000000000000000000000
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Test Name	DBRCLM ETC6H5	MECCHS	MER MIBK	MNBK	TISDCP	TCLEA	TCLEE	TXXLEN			MECADA	111TCE	112TCE	11DCE	12DCD4	12DCE	12DCLE	12DCLP	404 0404	BRDCLM	C13DCP	C2AVE	CZH3CL	776H27	CCL4	CH2CL2	CH3BR	CHBR3	CHCL3	CLC6H5	CS2	DBRCLA	MEC6D8	MEC6H5	MEK S	MIBK	STYR	T13DCP TCLEA
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 5-oct-92			
	Chemical Quality Control Report	Installation: Badger AAP, WI (BA)	Analysis Date Range: 01-sep-91 to 5-oct-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 5-oct-92

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F Samp No	P9101012 P9101012 P91010116 P91010116 P91010118 P91010022 P91010022 P91010022 P91010031 P91010041 P91010041 P91010041 P91010051 P91010051 P91010051 P91010051	MAGENTAL STATES OF THE STATES
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 5-oct-92

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Test Name	MEC6D8 MEC6H5 MEC6H5 MIBK MIBK MIBK MIBK MIBK MIBK MIJJDCP TCLEE TTCLEE TTCCOO	1111CE 1121CE 11DCE 11DCE 12DCD4 12DCE 12DCE 12DCLE 4BFB ACET BRDCLM
F Samp No	Methblk Methbl	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 5-oct-92

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F Samp No	P9106006	MethBlk MethBlk MethBlk MethBlk	Methalk Methalk Methalk Methalk	MethBlk MethBlk MethBlk MethBlk	MethBlk MethBlk MethBlk MethBlk MethBlk	Methbik Methbik Methbik Methbik Methbik Methbik Methbik		P9106091 P9106091 P9106091 P9106101 P9106101 P9106111	MethBlk MethBlk
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Method	LM26 LM26	LM26 LM26	LM26 LM26	LM26	LM26	LM26	LM26	LM26	LA26	LM26	LM26	1.M26	LM26	LM26	LM26	1,M26	LM26	LM26	LM26	1,M26	LM26	LM26	LM26	LM26	LM26	LM26	LM26	1.M26	LM26	LM26	LM26	1.M26	LM26	LM26	LM26	LM26	LM26	LM26
/ Spike	000				•		•	•		•	•			•	•			•	•	•		•	•	•			•	•		•	•			•			•	
oc Type	OCMB OCMB	OCMB OCMB	OCMB	OCSP	OC WB	OCMB	OCMB	OCCAB OCCAB	OCMB	QCMB	OCMB	OCAB	OCMB	OCMB		OCKIB OCKIB	OCMB	OCSP	COMB		OCE WE	OCMB	OCMB		OCAB OCAB	OCMB	OCNP	A PO	OCNP	OCNP	OCINE OCINE	OCNP	OCNP	OCNP	OCUP OCUP OCUP OCUP OCUP OCUP OCUP OCUP	QCNP	OCNP	OCNP
Test Name	110CE 110CLE	38:	12DCLE 12DCLP	4BFB	REDCT	C130CP	20	CZH3CL	າທ	CCL4	CH2CL2	CH3CL	CHBR3	CHCL3	CLCORS	DBRCLM	ETC6H5	MEC6D8	MEC6H5	MIRK	MNBK	STYR	TIBDCP	TCLEA	TRCLE	TXYLEN	120CD4	MECADA	12DCD4	4BFB	MEC6D8	4RFR	MEC6D8	12DCD4	WEC6D8	2000	BFB	120CD4
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 5-oct-92

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Value	0.075	00000000000000000000000000000000000000
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Analysis Date	23-oct-1991 23-oct-1991	244-000
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Test Name	CHCL3 CLC6HS CS2 DBRCLM ETC6HS MEC6HS MEK MIBK MIBK T13DCP TCLEA TCLEA TCLEE	12DCD4 4BFB MEC6D8 12DCD4 4BFB 12DCD4 4BFB MEC6D8 12DCD4 4BFB MEC6D8 12DCD4 4BFB MEC6D8 MEC6D8 MEC6D8 12DCD4 4BFB MEC6D8 12DCD4 4BFB MEC6D8 12DCD4 12DCD4 11DCE 11DCE 11DCE 11DCE
F Samp No	Metthblk Metthblk Metthblk Metthblk Metthblk Metthblk Metthblk Metthblk Metthblk Metthblk Metthblk Metthblk	A99103002 A99103002 A991030006 A991030006 A991030006 A991030000 A991030000 A991030000 A991030000 B991030000 B991030000 B991030000 B991031002 B99103102 B99103102 B99103102 B99103102 B99103102 B99103102 B99103102 B99103 B9910
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Test Name	CH2CL2 CH3BR CH3CL CHBR3 CHCL3 CLC6H5 CS2 CS2 DBRCLM ETC6H5 MEC6D8 MEC6D8 MEC6D8 MEC6D8 T13DCP T13DCP TCLER TYRE	TOC	Н	1117CE 1127CE 11DCE 11DCE 11DCCE 12DCCE 12DCCE 12DCCE 12DCCE 12DCCE C13DCP C2H3CL C2H3CL C2H5CL CCH5CL CHSR3 CHCL2 CHSR3 CHCL3 CHCL3 CHCCL3 CCCCCHSC CCCCCC CCCCCC CCCCCCC CCCCCCCC
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Analysis Date	05-nov-1991 05-nov-1991 05-nov-1991 05-nov-1991 05-nov-1991 05-nov-1991 05-nov-1991		5-nov-199	5-nov-1995-1995-1995-1995-1995-1995-1995-199	5-nov-199 5-nov-199 5-nov-199	5-nov-199 5-nov-199 5-nov-199 5-nov-199	5-nov-199 5-nov-199 5-nov-199 5-nov-199	00000000000000000000000000000000000000
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QC Type			OCRB		OCCR CCR BBBBB	OOCA CCR BBBBB BBBBBBBBBBBBBBBBBBBBBBBBBBB		
Test Name	MECCOS MECCHS MEK MIBK MNBK SIYR TIJDCP TCLEB	1117CE 1117CE 1117CE 1117CE 120CCE 120CCE 120CCE 487B	ACET	C13DCP C2AVE C2H3CL	C2HSCL C6H6 CCL4	CH2CL2 CH3BR CH3CL CHBR3	CHCL3 CLC6H5 CS2 DBRCLM ETC6H5	MECORD MEK MIBK MNBK STYR TCLEA TCLEE
F Samp No	MethBlk MethBlk MethBlk MethBlk MethBlk MethBlk MethBlk MethBlk	RINSEBLK RINSEBLK RINSEBLK RINSEBLK RINSEBLK RINSEBLK RINSEBLK RINSEBLK	RINSEBLE	RINSEBLK RINSEBLK RINSEBLK	RINSEBLK RINSEBLK RINSEBLK	RINSEBLK RINSEBLK RINSEBLK RINSEBLK	RINSEBLK RINSEBLK RINSEBLK RINSEBLK RINSEBLK RINSEBLK	RINSEBLY RINSEBLY RINSEBLY RINSEBLY RINSEBLY RINSEBLY RINSEBLY RINSEBLY
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\*\* End of Report - 1397 Records Found \*\*

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A.D. LITTLE LABORATORIES - ROUND ONE GROUNDWATER

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Chemical Quality C I Report Installation: Badger MP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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ISC										
Unit Meas	ner ner ner ner	ner ner ner ner	ner ner ner ner	ner ner ner ner	ner ner ner ner	ner ner ner	ner ner ner ner	ner ner ner	150 160 160 160 160 160 160 160 160 160 16	Ton
Value	0.566 1.730 2.750 2.780	0.566 2.080 3.000 0.566	0.566 2.110 2.940 3.040	0.566 1.800 2.670 2.840	0.566 1.910 2.880 2.940	0.566 2.220 3.000 3.220	0.566 2.040 2.840 2.870	0.566 2.190 2.890 3.030	0.388 0.788 17.200 17.200 0.270 0.517 17.500	. 28
Meas	LI	LT LT	LI	L1	LI	L1	ET .	r <sub>1</sub>	1 1 E	17
Analysis Date	25-sep-1991 25-sep-1991 25-sep-1991 25-sep-1991	22-nov-1991 22-nov-1991 22-nov-1991 22-nov-1991 22-nov-1991	09-dec-1991 09-dec-1991 09-dec-1991 09-dec-1991	13-dec-1991 13-dec-1991 13-dec-1991 13-dec-1991	19-dec-1991 19-dec-1991 19-dec-1991 19-dec-1991	30-dec-1991 30-dec-1991 30-dec-1991 30-dec-1991	31-dec-1991 31-dec-1991 31-dec-1991 31-dec-1991	03-jan-1992 03-jan-1992 03-jan-1992 03-jan-1992	20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991	0-sep-199 0-sep-199
Method Code	\$803 \$803 \$803 \$803	SB03 SB03 SB03 SB03 SB03	\$803 \$803 \$803 \$803	\$803 \$803 \$803 \$803	\$803 \$803 \$803 \$803	\$803 \$803 \$803 \$803	\$803 \$803 \$803 \$803	\$803 \$803 \$803 \$803	99999999999999999999999999999999999999	0W26 0W26
/ Spike	3.000	033.000	3.000	3.000	3.000	3.000	3.000	3.000	0.000 0.821 18.200 0.000 0.573 18.800	. 52
OC Type	QCMB QCSP QCSP	QCCSP QCCSP QCCSP QCRB	OCMB OCSP OCSP OCSP	OCMB OCSP OCSP OCSP	OCMB OCSP OCSP OCSP	OCMB OCSP OCSP OCSP	OCMB OCSP OCSP OCSP	OCMB OCSP OCSP OCSP	OCCAND PROCESS OCCAND	QCMB QCSP
Test Name	HC HC HC HC	HG HG HG	HH HH C	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2005 2005 2005 2005	0000 HHHH	2225 2225 2225 2225 2225 2225 2225 222	0000 HH200	135TNB 135TNB 135TNB 135TNB 13DNB 13DNB 13DNB	246TNT 246TNT
F Samp No		RB9101								
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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	Prog					
	ISC					
	Unit			100 100 100 100 100 100 100 100 100 100	190 000 000 000 000 000 000 000 000 000	ner ner ner ner ner
	Value	35.000 36.200 36.200 36.200 37.400 37.400 33.000 31.800	100016006040	1.160 30.400 33.300 1.110 1.950 32.400	1.160 32.800 34.400 1.110 1.750 35.200	1.160 32.900 33.200 1.110 2.110
	Meas	נז נז נז	ri Li	LT LT	ដ ដ	בז בז
76_18   _16 00 17	Analysis Date	20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991	0-860-199 0-860-199 0-860-199 0-860-199 0-860-199 0-860-199 0-860-199	16-nov-1991 16-nov-1991 16-nov-1991 16-nov-1991 16-nov-1991 16-nov-1991 16-nov-1991	18-nov-1991 18-nov-1991 18-nov-1991 18-nov-1991 18-nov-1991 18-nov-1991 18-nov-1991	23-nov-1991 23-nov-1991 23-nov-1991 23-nov-1991 23-nov-1991 23-nov-1991
י	Method Code	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9240 0426 0426 0426 0426 0426 0426 0426 0	0W26 0W26 0W26 0W26 0W26 0W26	0W26 0W26 0W26 0W26 0W26 0W26	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Super Sana	/ Spike	388 888 100 100 100 100 100 100 1	000000000000	0.000 37.260 37.200 0.000 2.290 38.300	0.000 38.000 38.000 39.300 39.800	38.200 38.200 20.000 20.000
	QC TYPE		PAPPER PA	O O O O O O O O O O O O O O O O O O O	OCCOMB OC	OCC SP P P P P P P P P P P P P P P P P P
	Test Name	246TNT 246TNT 246TNT 245NNT 26	NB NB NB RDX RDX RDX TETRYL TETRYL TETRYL	24bnr 24bnr 24bnr 24bnr 26bnr 26bnr 26bnr	240NT 240NT 240NT 260NT 260NT 260NT	24DNT 24DNT 24DNT 26DNT 26DNT
	F Samp No					
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Chemical Quality Cd | Report Installation: Badger , WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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	ISC													
	Unit	ner ner	ner		ner ner ner	ner ner	ner ner ner ner	UGL		ner ner ner	ner ner ner ner	ner	Ton Net Net net net	UGL
	Value	34.600 34.900		21.6	29.400 1.160 1.110	3.3	33.500 1.110 1.630 31.700 31.900	1.16	34.900 1.110 1.790 34.000	. 16 . 94 . 80	34.300 1.110 1.890 34.600 35.400	402.	34 100 1,110 2,140 35,200	1.160
	Meas Bool		LT	LI	ដ្ឋ	LT	LI	Lī	LI	LT	LT	LT	LI	LT
p-91 to 31-mar-92	Analysis Date	23-nov-1991 23-nov-1991		5-dec-199 5-dec-199 5-dec-199 5-dec-199	5-dec-1995-dec-1995-dec-199	6-dec-199 6-dec-199 6-dec-199	06-dec-1991 06-dec-1991 06-dec-1991 06-dec-1991 06-dec-1991	8-dec-199 8-dec-199 8-dec-199	18-dec-1991 18-dec-1991 18-dec-1991 18-dec-1991 18-dec-1991	3-dec-199 3-dec-199 3-dec-199	23-dec-1991 23-dec-1991 23-dec-1991 23-dec-1991 23-dec-1991	5-dec-199 5-dec-199 5-dec-199	25-dec-1991 25-dec-1991 25-dec-1991 25-dec-1991 25-dec-1991	06-jan-1992
e: Ol~se	Method	UW26 UW26	UW26 UW26 UW26	UW26 UW26 UW26	UW26 UW26 UW26	UW26 UW26 UW26	UW26 UW26 UW26 UW26	UW26 UW26 UW26	UW26 UW26 UW26 UW26	UW26 UW26 UW26	UW26 UW26 UW26 UW26	UW26 UW26	UW26 UW26 UW26 UW26	UW26
Date Kang	/ Spike	39.600 39.600	0.000 2.260 39.300	0.00	200	0.00 2.25 0.30	40.300 0.000 1.950 37.600 37.600	2.41	41:300 0.000 2.310 40.400	37.00	40.000 0.000 2.370 40.500	0.4.8	2.350 40.300 40.300	0.000
Andlysis	OC Type	QCSP QCSP	OCMB OCSP OCSP	OCSP OCSP	ÓCSP OCRB OCRB	QCMB QCSP QCSP	OCCAB CCSP CSP CSP CSP CSP CSP CSP CSP CSP CS	QCMB QCSP	OCCAN POCOCO	QCMB QCSP QCSP	OCCAB CCSSP CCSSP	QCSP QCSP QCSP	OCCAP CCSP CCSP	ОСМВ
	Test Name	26DNT 26DNT	24DNT 24DNT 24DNT	26DNT 26DNT 26DNT	26DNT 24DNT 26DNT	24DNT 24DNT 24DNT	24DNT 26DNT 26DNT 26DNT 26DNT	24DNT 24DNT 24DNT	24DNT 26DNT 26DNT 26DNT 26DNT	24DNT 24DNT 24DNT	24DNT 26DNT 26DNT 26DNT 26DNT	24DNT 24DNT 24DNT	240NT 260NT 260NT 260NT 60NT	24DNT
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	Lab	AĽ	AL			<b>A</b> E		¥F.		AL		AL		AL

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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ISC						H			
Unit	100 000 000 000 000 000 000 000 000	ner ner ner	ner ner ner	ner ner ner	ner ner ner	ner ner ner	ner ner ner ner	190 100 100 100 100	ner ner ner ner
Value	2.190 36.400 37.300 1.110 2.200 37.200	3.090 5.800 14.400	4.100 8.010 13.600 13.600	4.740 8.370 31.900 32.100	0.316 0.747 2.630 3.100	10.000 5.220 31.300 32.900	4.740 6.810 32.600 35.600 4.740	3.090 4.940 14.800 3.090	4.100 8.210 14.900 15.400
Meas Bool	LI	LT	LI	L.T.	LT	Q	rı rı	ti ti	LT LT
Analysis Date	06-jan-1992 06-jan-1992 06-jan-1992 06-jan-1992 06-jan-1992 06-jan-1992	25-sep-1991 25-sep-1991 25-sep-1991 25-sep-1991	24-sep-1991 24-sep-1991 24-sep-1991 24-sep-1991	23-sep-1991 23-sep-1991 23-sep-1991 23-sep-1991	26-sep-1991 26-sep-1991 26-sep-1991 26-sep-1991	23-sep-1991 23-sep-1991 23-sep-1991 23-sep-1991	10-dec-1991 10-dec-1991 10-dec-1991 10-dec-1991	04-dec-1991 04-dec-1991 04-dec-1991 04-dec-1991 04-dec-1991	04-dec-1991 04-dec-1991 04-dec-1991 04-dec-1991 04-dec-1991
Method	UW26 UW26 UW26 UW26 UW26 UW26	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	<b>555</b>	SD24 SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24 SD24 SD24
/ Spike	2.340 39.800 0.000 2.380 40.800	0.000 5.000 15.000 15.000	0.000 8.000 15.000 15.000	0.000 7.500 30.000	0.000 3.000 3.000	0.000 7.500 30.000 30.000	0.000 7.500 30.000 0.000	0.000 15.000 15.000 0.000	0.000 8.000 15.000 0.000
OC Type	QCSP QCSP QCSP QCSP QCSP QCSP	OCCMB OCCSP OCCSP	OCMB OCSP OCSP	OCCAB OCCSP OCCSP	QCMB QCSP QCSP	OCCAB OCCAB OCCAP OCCAP	QCMB QCSP QCSP QCSP	OCMB OCSP OCSP OCRP	OCSP OCSP OCSP OCSP
Test Name	24DNT 24DNT 24DNT 26DNT 26DNT 26DNT	A A B S S S S S S S S S S S S S S S S S	ខាតខាត	83 83 83 84 84 84	980 880 880 880	1111	8 8 8 8 8 8 8 8 8 8	988 988 988 988	ល ល ល ល ល ខា ខា ខា ខា ខា
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Chemical Quality Companies Installation: Badger (WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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ISC										
Unit	150 160 160 160	150 150 160 160	190 190 190	Ton nor nor	190 001 001	100 100 100 100	Ton nor nor	Ton nor nor	190 100 001	790 790 790 790
Value	0.316 0.858 2.900 2.940 0.316	7.500 17.200 67.600 77.700	0.316 0.692 2.490 2.950	3.090 5.280 15.700 15.700	4.740 7.470 25.400	4.100 8.130 14.500 14.800	7.500 15.100 57.400 74.400	3.090 5.360 13.800 14.600	4.100 6.910 14.100 14.600	0.316 0.789 2.890 3.100
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Analysis Date	09-dec-1991 09-dec-1991 09-dec-1991 09-dec-1991 09-dec-1991	10-dec-1991 10-dec-1991 10-dec-1991 10-dec-1991 10-dec-1991	09-dec-1991 09-dec-1991 09-dec-1991 09-dec-1991	05-dec-1991 05-dec-1991 05-dec-1991 05-dec-1991	11-dec-1991 11-dec-1991 11-dec-1991 11-dec-1991	05-dec-1991 05-dec-1991 05-dec-1991 05-dec-1991	12-dec-1991 12-dec-1991 12-dec-1991 12-dec-1991	18-dec-1991 18-dec-1991 18-dec-1991 18-dec-1991	18-dec-1991 18-dec-1991 18-dec-1991 18-dec-1991	16-dec-1991 16-dec-1991 16-dec-1991 16-dec-1991
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Value	4.740 7.110 31.000 31.900	7.060 17.200 28.100 28.600	0.316 0.831 3.170 3.260	3.090 4.850 17.400 18.400	4.100 7.020 15.300 15.900	4.740 7.350 27.900 28.400	7.500 7.080 27.600 28.400	7.500 8.110 28.800 29.300	0.316 0.752 2.960 2.990	3.090 5.650 15.500	4.740
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Chemical Quality Commissions Installation: Badger (WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Value	9.030 27.800 29.400	4.100 8.120 14.700 15.300	4.740 7.680 27.000 28.000	0.250 3.060 3.060 0.900	30.	0.900 1.790 15.300 16.600	0.900 1.940 16.100 17.800	0.900 2.090 14.900 16.700	0.900 2.260 16.800 21.700	1.980 17.200 18.100	0.900 1.650 10.600
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	Value	12.600	0.900 2.030 13.700 14.300	0.900 1.500 13.100 13.800	0.900 1.770 11.000 12.800	0.900 1.940 10.500	0000	244 288 288 288 288 288 288 288 288 288	486	137.000 137.000 3700.000 3800.000	0000	282. 286. 286. 296.0	34606
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- 1 CO 31-mar-92	Analysis Date	12-dec-1991	17-dec-1991 17-dec-1991 17-dec-1991 17-dec-1991	19-dec-1991 19-dec-1991 19-dec-1991 19-dec-1991	02-jan-1992 02-jan-1992 02-jan-1992 02-jan-1992	03-jan-1992 03-jan-1992 03-jan-1992 03-jan-1992	0-sep-199 0-sep-199 0-sep-199		00-10-10-10-10-10-10-10-10-10-10-10-10-1	20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991 20-sep-1991	-nov-199 -nov-199	-nov-199	07-nov-1991 07-nov-1991 07-nov-1991 07-nov-1991
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Chemical Quality Co Installation: Badger WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Value	137.000 183.000 3820.000 3830.000 10000.000	273.000 482.000 1470.000 1510.000 137.000 3770.000	273.000 431.000 1430.000 1550.000 137.000 3760.000	5.260 7.830 75.000 75.900 5.260	273.000 438.000 1440.000 1450.000 137.000 3820.000	273.000 440.000 1390.000 1650.000 137.000 3670.000	273.000
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Method	1108 1108 1108 1108	11108 11108 11108 1108 1108	11.08 8.0111 8.0111 8.0111 8.0111 8.011	11410 11410 11410	11108 80111 1108 80111 1108 80111	1108 1108 1108 1108 1108 108	1108 1108
rpe / Spike	0.000 200.000 4010.000 4010.000 0.000	504.000 1510.000 1510.000 200.000 4010.000	504.000 1510.000 1510.000 200.000 4010.000	0.000 10.000 75.000 0.000	504.000 1510.000 1510.000 200.000 4010.000	0.000 1510.000 1510.000 200.000 4010.000	0.000
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Value	1430.000 1450.000 137.000 159.000 3810.000	5.260 8.940 72.300 89.700	5.260 8.790 74.700 75.000	73.00 38.00 40.00	204.000 4040.000 4080.000	5.260 9.160 71.900 74.100	5.260 9.160 72.200 73.000	32.00	137.000 164.000 3980.000	5.260 8.750 69.600 70.700	273.000
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Method	1108 1108 1108 1108 1108	1710 1710 1710	1710 1710 1710	TT08 TT08	1108 1108 1108	1710 1710 1710	1710 1710 1710	11108 11108	1111 1108 1108	1710 1710 1710	TTO8
Type / Spike	1510.000 1510.000 0.000 200.000 4010.000	0.000 10.000 75.000 75.000	0.000 10.000 75.000 75.000	8888	000	0.000 10.000 75.000 75.000	0.000 10.000 75.000 75.000	8888	000	0.000 10.000 75.000	0.000
영	OCCSP OCCSP OCCSP OCCSP	QCSP QCSP QCSP QCSP	OCSP OCSP OCSP OCSP	OCAB OCSP OCSP	OCSP OCSP OCSP	OCCAP OCCSP OCCSP OCCSP	OCCSP OCCSP OCCSP OCCSP	OCCAB OCSP OCSP	OCCAP OCCAP OCCAP	OCCAB OCCAP OCCAP	QCMB
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Chemical Quality Co Installation: Badger (NI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Value	443.000 1490.000 1510.000 137.000 184.000 4140.000	273.000 428.000 1450.000 137.000 174.000 4010.000	273.000 455.000 1520.000 137.000 198.000 4190.000	273.000 415.000 1440.000 137.000 205.000 3980.000	1.000 1.660 8.910 9.130	81.500 172.000 746.000 1490.000 1.520 1.520 1.520 1.520 27.800
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Method Code	11108 11108 11108 1108	1108 1108 1108 1108 1108	11108 11108 11108 11108	11108 11108 11108 1108	, , , , , , , , , , , , , ,	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Type / Spike	505.000 1520.000 1520.000 205.000 4090.000	505.000 1520.000 1520.000 205.000 4090.000	505.000 1520.000 1520.000 205.000 4090.000	505.000 1520.000 1520.000 205.000 4090.000	0.000 1.530 9.340 9.340	160.000 800.000 1600.000 15.000 15.000 0.000
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Value	0.615	,7	6.7	œ،	 		19.0	2.6	4.	2.9	4.1	9,	40.4		33.0	4.4	9.3	œ۱	4.7		ÄC		) (		4.6	4.7	1.0	63.0	24.6	7.00 C	,	386	9	6.0	98.0	8.	14.6	, 0.0	2. 2.4	410.0	90	630.0	8.7	20.0	o .
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Method Code	SS16	22	21	25	מק	5	SI	21	S	S	S	Si	7 .	7 5	SI	SI	<b>S</b> 1	21	S	7	75	ם ב	מ ל	5	212	S	S	21	3:	7,5	מ מ	S	SI	S	S	21	23	S	7 5	1 C	S	S	21	Si	Š
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QC Type	QCSP	OCSP	QCSP		CCS P	OCSP OCSP	OCSP	QCMB	OCSP	OCSP	OCSP		2000	OCSP	OCSP	OCMB	QCSP	OCSP	QCSP QCSP	S C S E		בינט טינט טינט	OCSP	OCSP	OCMB	OCSP	OCSP	OCSP	OCMB		ביים מיים מיים	OCE N	OCSP	OCSP	OCSP	OCMB	OCSP	OCSP	S C C C	0 0 0 0 0 0 0	OCSP	OCSP	QCMB	OCSP	OCSP
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Unit	150 150 150 150 150 150 150 150 150 150	
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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	Test Name	BKFANT	CL6BZ	CLECP	CLGET	CPMS	CPMSO CPMSO2	DBAHA	DBHC	DEP	DITH	DLDRN	DAR DARP	DNOP	DNOPD4	ENDRNK	ESFSO4	FLRENE	HCBD	HPCLE	ICDPYR	LIN	MEXCLR	NAP	NBDS	NDNPA	OXAT	PCP	PHENOL	PP000 PP000	PPDDT	PKIHN PYR	130804	DNOPD4
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Test Name	BZALC	CL662	CLOET	CPMS	CPMS02	DBAHA		DEP	DEPD4	DITH	DAP	DNBP	DNOP	DNOPD4	FNDRA	ESFS04	FANT	FLRENE	HCBD		ICDPYR	ISOPHR	LIN	MLTHN	NAP		NONDA	NNDPA	OXAT	PCP	PHENOL	PPDDD	PPDDE	PPDDT	PYR	130804	DEPO4	NBDS
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Test Name	CL682 CL6CP	CLDAN	CPMSO	CPMS02	DBAHA	DBZFUR	DEP	DEPD4	NACIO	DAP	DNBP	DNOP	PNOVD4	ENDRNX	ESFS04	FANT	FLKENE	HPCI.	HPCLE	ICDPYR	ISOPHR	MEXCLR	MLTHN	NAP	Z Z Z	NONDA	NNDPA	OXAT	PCP	DHENOT.	PPDDD	PPDDE	TODAGO Natoo	PYR	123TCB	120CLB	13DCLB
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Test Name	CPMSO CPMSO2 DBAHA DBAHC DBZFUR	DEPD4 DITH DLDRN	DNBP DNOP DNOPD4	Endrn Endrnk Esfso4	FLRENE HCBD HPCL HPCLE	ICDPYR ISOPHR LIN	MEXCLR MLTHN NAP	NB NBDS NDNPA	OXAT PCP	PHENOL PPDDD PPDDE PPDDE	PRTHN PYR 13DBD4 DEPD4 DNOPD4 NBD5	1237CB 1247CB 12DCLB 13DBD4 13DCLB 14DCLB
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Test Name	CPMSO2 DBAHA DBHC	DBZFUR DEP	DEPD4 DITH	DLDRN	DAP	DNOP	DNOPD4	ENDRN	ESFS04	FANT	FLRENE	HPCL	HPCLE	ICDPYR	LINGER	MEXCLR	MLTHN	Z S S	NBDS	NONPA	NNDPA	PCP	PHANTR	PHENOL	PPDDE	PPDDT	PRTHN	UNKS30	13DBD4	DEPD4	DNOPD4	13DBD4	DEPD4	DNOPD4	13DBD4	DEPD4	DNOPD4
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Report WI (BA) to 31-mar-92 Chemical Quality Co Installation: Badger Analysis Date Range: 01-sep-91

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Test Name	BKFANT BZALC CHRY	CL682 CL6CP	CLEET	CPMS	CPMS02	DBAHA	DBZFUR	DEP	DITH	DLDRN	OXO OXO	DNO	DNOPD4	ENDRNK	ESFS04	FANT	HCBD	HPCL	HPCLE	ISOPHR	LIN	MEXCLR MT #UN	NAP	8		NNDPA	OXAT	PCP	PHENOL	PPDDD	PP00E	PRTHN	PYR	130804	DNOPD4
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Test Name	ABHC ACLDAN AENSLF ALDRN	ANAPNE ANAPYL ANTOC	B2CEXM	B2CLEE B2EHP	BAANTR	BBFANT	882P	BENZOA	BGHIPY	BZALC	CHRY	CLECP	CLOST	CPMS	CPMSO CPMSO2	DBAHA	DBZFUR	DEP	DITH PITH	DLDRN	DNBP	DNOP	DNOPD4	ENDRNK	ESFS04	FLRENE	HCBD	HPCLE	ICDPYR	ISOPHR
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Chemical Quality Co Installation: Badger WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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	Test Name	MEXCLR MLTHN	NAP NB NBC	NDNPA	OXAT	PCP	PHENOL	PPDDD	PPDDT	PRTHN	13DBD4	DEPD4	N C C C C C C C C C C C C C C C C C C C	13DBD4	DEPD4	NBDS	130804	DEPD4	DNOPD4	130804	DEPD4	NACPU4	130804	DEPD4	NEOFU4	130804	DEPD4	NBDS	130804	DEFU4	NBDS	123TCB 124TCB	13DBD4	13DCLB 14DCLB
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Test Name	CPMSO2 DBAHA DRHC	DBZFUR	DEPD4	DLDRN	DMP	DNBP	DNOPD4	ENDRN	ENDRNK	FART	FLRENE	HCBD	HPCL	ICDPYR	ISOPHR	LIN	MEXCLR	NAP	. a	NBDS	NONPA	NNOPA CXATA	PCP	PHANTR	PHENOL		PPDDT	PRTHN	PYR 1 2 D D D A	DEPD4	DNOPD4	NBDS	130804	DEFU4	NBDS	130804	DNOPD4	NBDS
F Samp No																													1010170	RGM9101	BGM9101	BGM9101	ELN8904A	FINDOOD T	ELN8904A	ELN8904B	F1.N8904B	ELN8904B
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Unit		150 150 150 150 150 150 150 150 150
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Analysis Date	233-4-deedeedeedeedeedeedeedeedeedeedeedeedee	06-jan-1992 06-jan-1992 06-jan-1992 06-jan-1992 06-jan-1992 06-jan-1992 06-jan-1992 06-jan-1992
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Test Name	13DBD4 DEPD4 DEPD4 NBD5 13DBD4 DEPD4 NBD5 13DBD4 DEPD6 DEPD6	1231CB 1224TCB 12DCLB 13DBD4 13DCLB 14DCLB 2461CP 2461CP 24DCLP
F Samp No	PBN8202B PBN8202B PBN8202B PBN82002B PBN82002C PBN82002C PBN82002C PBN82002C PBN82002C PBN82005A PBN82005A PBN82005A PBN82005C PBN82005A PBN82005C PBN82005A PBN82005C	
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Method	UM16 UM16	UM16	OM16	UM16	UM16 UM16	UM16	UM16	UM16	0M16	UM16	UM16	UM16	UM16	UM16	UM16	UM16	UMIG	UM16	UM16	UM16	UM16	OMI O	UM16	UM16	0W16	UM16	0M16	UM16	UM16	OM16	UM16	UM16	UM16	UM16
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Test Name	24DNP 24DNT	2CLP 2CNAP	2MNAP 2MP	2NANIL	33DCBD	SNAMIL	46DN2C	4CANIL	4CL3C	4MP	4NANIL	ABHC	ACLDAN	AENSLF	ANAPNE	ANAPYL	ANTEC	BZCIPE	BZCLEE	BAANTR	BAPYR	BBFANI	BBZP	BENSLF	BGHIPY	BKFANT	BZALC	CL6BZ	CLECP	CLORN	CPMS	CPMS02	DBAHA	DBZFUR
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Value	88	~	38	90	90	6.60	8	9.00		8.00	$\frac{6.20}{2}$	250	90	5.80	8	, v	80	1.00	4.50	95	99	8	9.0	25	38	4.70		2.50	96.60	8.00	13.00	5.00	97.10	9.40	 50	9.80	6.00	200	56
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Method Code	UM16 UM16	UM16	UM16	UM16	UM16	UM16	UM16	UMIG	UM16	UM16	UM16	UM16	UM16	UM16	UM16	UMIE	UM16	UM16	OM16	OMI O	UM16	UM16	UM16	OTEO	UM16	UM16	OTEN	UM16	UM16	UM16	9120	UM16	UM16	UM16	9120	UM16	UM16	UM16	UM16
/ Spike	0.000	86	88	96	88	9	86	36	80	8	88	36	88	8	98	30	0.0	8	88	36	8	8	86		88	86		6.00	4.00	0		4.00	5.00	000	9.6	5.00	5.00	9.0	38
QC Type	QCMB QCSP	OCMB OCMB	OCMB		OCSP	OCMB	OCMB		OCMB	OCMB	OCMB		OCMB	OCMB	OCMB	OCMB	OCMB	OCSP	OCMB OCMB		OCMB	<b>OCMB</b>	BW00		QCMB	OCMB		CN	QCNP	OCNP		OCNP	OCNP	OCNP		OCN P	OCNP	OCUP OCUP OCUP OCUP OCUP OCUP OCUP OCUP	OCN P
Test Name	DEP DEPD4	DITH	DMP	DNOP	DNOPD4	ENDRN	ENDRNK	FANT	FLRENE	HCBD	HPCL	TODAYR	ISOPHR	LIN	MEXCLR	NAP	N N	NBDS	NONPA	OXAT	PCP	PHANTR	PHENOL	PPDDE	PPDDT	PRTHN	13DRD4	DEPD4	DNOPD4	NBDS	130504	DNOPD4	NBDS	130804	DEFD4	NBDS	130804	<b>2</b> 12	NBDS
F Samp No																																							DBN8904A
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Chemical Quality Co Installation: Badger WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Unit		
Value	113.000 120.0000 102.0000 102.0000 102.0000 102.0000 103.00000 103.0000 103	100.000 100.000 100.000 100.000
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Analysis Date	066-1-19992 07-1-19992 07-1-19992 07-1-19992 07-1-19992 07-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992 06-1-19992	07-jan-1992 07-jan-1992 07-jan-1992 07-jan-1992 07-jan-1992 07-jan-1992 07-jan-1992 07-jan-1992
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F Samp No	DBN8904BB DBN8904BB DBN8904BB DBN8904BB ELN8902B ELN8902B ELN8902BB ELN8902BB ELN8902BB LON8902BB LON8902BB LON8902BB LON8902BB LON8902BB LON8902BB LON8902BB LON8902BB LON8902BB LON8902BB LON8903BB LON8903BB LON8903BB LON8903BB LON8903BB LON8903BB LON8903BB LON89003B SII122 SII122 SII122 SII135 SII135 SII35	
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Analysis Date	n-199 n-199	7-jan-1 7-jan-1	7-jan-1997-7-1999-7-199-7-19-7-199-7-19-7-19-7-19-7-19-7-19-7-19-7-19-7-7	7-jan-199	7-jan-199 7-jan-199	7-jan-199	7-jan-199 7-jan-199	7-jan-199	7-jan-199 7-jan-199	7-jan-199	/-jan-199 7-jan-199	7-jan-199	7-jan-199	7-jan-199	7-jan-199 7-jan-199	7-jan-199	7-jan-199 7-jan-199	7-jan-199	7-jan-199 7-jan-199	7-jan-199	7-jan-199	/-jan-199 7-jan-199	7-jan-199	/	7-jan-199	7-jan-199 7-jan-199	7-jan-199	7-jan-199	7-jan-199	7-jan-199	7-jan-199	7-jan-199 7-jan-199	7-jan-199
Method	UM16 UM16	UM16	UM16	UM16	UM16 UM16	UM16	UM16 UM16	UM16	UM16	UMIE	0M16 UM16	UM16	OW16	UM16	UMIG	UM16	UM16	UM16	UM16	UM16	UM16	UM16	UM16	OMI O	UM16	UM16	UM16	UM16	UM16	UM16	UM16	UM16 UM16	UM16
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QC Type	OCMB OCMB			OCMB		OCMB		OCMB OCMB	OCWB OCWB	OCMB	OCWB OCWB	OCWB OCWB	OCMB OCMB	OCMB		<b>OCMB</b>	OCWB COWB	OCMB		OCMB CMB	OCMB		OCMB	OCAB OCAB	OCMB		OCMB OCMB	SCMB SCMB	OCAB OCAB	OCMB OCMB	OCMB		QCMB
Test Name	24DNP 24DNT	2CLP	2MNAP	ZNANIL	2NF 33DCBD	SNANIL	46DN2C 4BRPPE	4CANIL	4CLPPE	4MP	4NP 4NP	ABHC	AENSLF	ALDRN	ANAPNE	ANTRC	BZCEXM	BZCLEE	B2EHP Baantd	BAPYR	BBFANT	BBZP	BENSLF	BGHIDY	BKFANT	BZALC	CL6BZ	CLECP	CLOSI	CPMS	CPMS02	DBAHA	DBZFUR
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Report	WI (BA)	to 31-mar-92
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Method	UM16 UM16	UM16	UM16 UM16	UM16	UMIE	UM16	UM16	OM16	UM16	UM16	UM16	OTEN DELECTION	UM16	UM16	UM16	OM16	OMIO	UM16	UM16	UM16	OMIG	OMIN	UM16	UM16	UM16	UM16	מדעם מדאנו	UM16	UM16	UM16	0,000	9120	UM16	UM16	UM16	OM16	IMIG	-	UM16	OTWO
/ Spike	76.000	,00	90	0.0	, 0	9	9	o, c	90	0	o.	90	.0	0	9	9	? c		9	ö	9		90		0	Ö		, 0	9	0.0	o c	• • • •	20	s o	6.0	4 r	? 0	6.0	4.00	?
QC Type	OCMB	OC WB	OCMB OCMB	OCMB	OCMB OCMB	OCMB	OCMB	CEMB	OCMB	OCMB	OCMB		OCMB	OCMB	OCMB	OCMB	2000	OCMB OCMB	QCMB	OCMB	OCMB			OCMB	<b>OCMB</b>	OCMB		OCNP	OCNP	OCNP	OCNP		OCND	OCNP	QCNP	OCNP	N CO	OCNP	OCNP	OCN P
Test Name	DEP DEPD4	DLDRN	DMP	•	ENDRN 4	ENDRNK	ESFS04	FANT	HCBD	HPCL	HPCLE	TODELE	LIN	MEXCLR	MLTHN	NAP S	0 C C C C C C C C C C C C C C C C C C C	NDNPA	NNDPA	OXAT	PCP	PHANTK	PPDDD	PPDDE	PPDDT	PRTHN	אות המהני	DEPD4	DNOPD4	NBDS	130804	DEFUG	NADS	13DBD4	DEPD4	DNOPD4	NBD5	DEPD4	DNOPD4	NBDS
F Samp No																											COCOMO	DBM8202	DBM8202	<b>DBM8202</b>	DBM8905		DESCRIPTION	200	201	DBN8201C	707	ELM8903	ELM8903	ELMSYUS

Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Test Name	13DBD4 DEPD4	1237CB 1247CB 12DCLB 13DBD4 13DCLB 14DCLB 2467CP 2467CP 24DCLP
F Samp No	ELM8905 ELM8905 ELM8905 ELM89055 ELM89055 ELM9110 ELM9110 ELM8202A ELM8202A ELM8202A ELM8202A ELM8202A ELM8202A ELM8202A ELM8202A ELM8202A ELM8202A ELM8204A ELM8204A ELM8204A ELM8204A ELM8906B ELM8906B ELM9107A ELM9107A ELM9107A ELM9107A ELM9107A ELM9107A ELM9107A ELM9107A ELM9107A ELM9107A	
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Method Code	UM16 UM16 UM16	UM16 UM16 UM16	UM16	UM16	OM16	UMIE	UM16 UM16	UM16	UM16 UM16	UM16	OW16	UM16 UM16	UM16	UM16	UM16	UM16	UM16 UM16	UM16	UMIG	UM16	UM16	UM16	UM16	UM16	UM16	0M16	UM16	UM16	UM16 UM16	
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OC Type	OCMB OCCMB OCCMB		OCSP OCMB	E WOO	OCWB OCWB	OCE NO	E E	S S S S S S S S S S S S S S S S S S S		OCMB	C WB	OCKB OCKB			CAB	OCMB COMB		OCMB		OCNP	OCIN D	OCIN D	OCNP		OCN		COND	a a co	ocup Ocup	1
Test Name	DEP DEPD4 DITH	OMP ONB ONB ONB	DNOPD4 ENDRN	ENDRNK	FANT F1 DENE	HCBD	HPCLE	ISOPHR	MEXCLR	MLTHN	10 N	NBDS	NNDPA	PCP	PHANTR	PPDDD	PPDDE PPDDT	PRTHN	PYR UNK534	130804	DEPD4	NBDS	130804	DNOPD4	NBDS	130804	DNOPD4	NBDS 1 2 DRD 4	DEPD4 DNOPD4	
F Samp No																				$\sim$	$\sim$	$\sim$	~	$\overline{}$	$\sim$	~ ~	$\sim$	~~	ELM8907 ELM8907	

Chemical Quality Co Report Installation: Badger WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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F Samp No																										DBN8902A	DBNBSOZA	DBN8902A	DBN8902B	DBN8902B	DBN8902B	FTM8901	FTM8901	FTM8901	LOM9102	LOM9102	7017100
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Test Name	2CLP 2CNAP	2MNAP	2NANIL	2NP 72765	SNANIL	46DN2C	4BRPPE	4CANIL	4CLPPE	4MP	4NANII	CHEA	ACLDAN	AENSLF	ALDRN	ANAPYL	ANTRC	BZCEXM	BZCIPE BZCIPE	BZEHP	BAANTR	BAPYR	BBHC	BBZP	BENSLF	BGHIPY	BKFANT	BZALC	CL6BZ	CLECP	CLOET	CPMS	CPMSO	CPMS02	DBHC	DBZFUR	DEPD4	DITH
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Test Name	MNBK	TISDCP	TCLEE	111TCE	112TCE	11DCE	LIDCLE	12DCE	12DCLB	12DCLE	IZDCLP	130CL	13DCP	13DMB	14DCLB	ZCLEVE	ACET BBDCT K	0130CP	CZAVE	CZH3CL	C2HSCL	C6H6	מבונה מינים	CH2CL2	CH3BR	CH3CL	CHEKA	CLCGHS	CS2	DBRCLM	ETBDIO	MEC6D8	MEC6H5	MEX	MIBX	MNBK 1985	111K	TCLEA	TCLEE
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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F Samp No	PBM8906 PBM8906 PBN8501A PBN8501A PBN8501A PBN8501A PBN8503A PBN8503A PBN8503A PBN8503A PBN8901B PBN8901B PBN8901C PBN8901C PBN8901C PBN8901C PBN8901C PBN8901C PBN8901C PBN8901C PBN89100 PBN8910 PBN8910 PBN8910 PBN8910 PBN8910 PBN8910 PBN8910 PBN8910 PBN8910 PBN8910 PBN8910 PBN8910	TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG TRPBLKOG

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-me

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Test Name	13DCLB 13DCP	13DMB 14DCLB	2CLEVE	BRDCLM	C13DCP	CZAVE	CZHSCL	сене	CCL4	CDZCT 2	CH3BR	CH3CL	CHBR3	CLCGHS	CS2	DBRCLM		MEC608	MEC6H5	MEN	MNBK	STYR	TISDCP	TCLEA	TRCLE	12DCD4	CD2CL2	MECADA	12DCD4	CD2CL2	ETBDIO	120CD4	CD2CL2	ETBD10	MEC6D8	CD2CL2	ETBD10	MEC6D8	120004
F Samp No																										LOM8901	LOM8901	1.0M8901	PBM8204	PBM8204	PBM8204	PBM8909	PBM8909	PBM8909	PBM8909	51130	\$1130	S1130	SFROACOR

Chemical Quality Cd Report Installation: Badger WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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	Test Name	CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8	1117CE 1127CE 11DCC 11DCCE 12DCD4 12DCCE 12DCCE	12DCLE 12DCLP 12DMB 13DCLB	13DCP 13DMB 14DCLB 2CLEVE	ACET BRDCLM	CISSOC C2AVE C2H3CL C2H5CL	CCL4 CD2CL2 CH2CL2	CH3BR CH3CL CHBR3 CHCL3	CS2 CS2 DBRCLM ETC6H5 MEC6D8	MEK MIBK MIBK STYR TIJDCP TCLEA
	F Samp No	SPN8905A SPN8905A SPN8905A SPN8905B SPN8905B SPN8905B SPN8905B									
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Test Name	2CLEVE ACET	BRDCLM C13DCP	CZAVE	CZHSCL	Сене	CCL4	CDSCF2	CHARR	CH3CL	CHBR3	CHCL3	CLC6H5	DBRCLM	ETBD10	ETC6H5	MEC6D8	MEX	MIBK	MNBK	STYR	115005	TCLEE	TRCLE	111TCE	112TCE	11DCLE	12DCD4	12DCE	12DCLE	12DCLP	12DMB	130CE	13DMB	14DCLB	ZCLEVE POPT	BRDCLM	C13DCP	CZAVE CZH3CL
F Samp No	TRPBLK13 TRPBLK13	TRPBLK13 TRPBLK13	TRPBLK13	TRPBLK13	TRPBLK13	TRPBLK13	TRPBLK13	TRPRIK13	TRPBLK13	TRPBLK13	TRPBLK13	TRPBLK13	TRPBLK13	TRPBLK13	TRPBLK13	TRPBLK13	TRPRIKIS	TRPBLK13	TRPBLK13	TRPBLK13	TODELKIS	TRPBLK13	TRPBLK13															
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QC Type			COMB		OCWB OCWB	OCCWB OCCWB OCCWB				OCCAB OCCAP OCCAP		SCMB SCMB SCMB
Test Name	MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10 MEC6D8	1111CE 1127CE 11DCE 11DCLE 12DCD4 12DCE 12DCLE 12DCLE	120MB 130CLB 130CP	130MB 140CLB 2CLEVE	ACET	C13DCP C2AVE C2H3CL	C2H5CL C6H6 CCL4	CH2CL2 CH3BR CH3CL CH3CL	CHCL3 CLC6H5 CS2 DBRCLM ETBD10	ETCGHS MECGD8 MECGHS	MEK MIBK NBK	STYR T13DCP
F Samp No	PBM8201 PBM8203 PBM8203 PBM8203 PBM8203 PBN8201B PBN8201B PBN8201B PBN8201B											
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Chemical Quality Cd Report Installation: Badger K, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Report	WI (BA)	to 31-mar-92
Chemical Qualit	ıst	nalysis Date Range: 01-sep-91

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Test Name	1111CE 1121CE 11DCE 11DCLE 12DCD4 12DCCE 12DCCE 12DCCE	12DMB 13DCLB 13DCP 14DCLB 2CLEVE	ACET BRDCLM C13DCP C2AVE C2H5CL C2H5CL CCH5CL CH3CL CH3CL CH3CL CCCCH5 CCCCH5 CCCCH5 CCCCH5 CCCCH5 CCCCH5 CCCCH5 CCCCH5 CCCCH5 CCCCH5 CCCCH5 CCCCCH5 CCCCCH5 CCCCCH5 CCCCCH5 CCCCCCCC	1117CE 1117CE 1127CE 11DCE 12DCD4
F Samp No	TRPBLK14 TRPBLK14 TRPBLK14 TRPBLK14 TRPBLK14 TRPBLK14 TRPBLK14	TRPBLK14 TRPBLK14 TRPBLK14 TRPBLK14 TRPBLK14	TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14  TRPBLK14	TRPBLK14
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92	
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Test Name	12DCLB 12DCLE	12DMB	13DCLB 13DCP	13DMB	14DCLB 2CLEVE	ACET	BROCLA	CZAVE	C2H3CL	C6H6 C6H6	CCL4	CH2CL2	CH3BR	CH3CL	CHCL3	CLC6H5	CS2	ETBD10	ETC6H5	MEC6D8	MEKOHO	MIBK	MNBK	TIBDCP	TCLEA	TCLEE	120CD4	CD2CL2	ETBD10	120004	CD2CL2	ETBD10	120004	CD2CL2	ETBD10	12DCD4
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Test Name	CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2	ETBD10 MEC6D8 12DCD4	CD2CL2 ETBD10	MEC6D8	CD2CL2	ETBD10 MEC6D8	111TCE	11DCE	12DCD4	12DCE	12DCLE	12DCLP	12DMB 13DCLB	13DCP	13DMB	2CLEVE	ACET	SKOCLA C13DCP	CZAVE	CZH3CL	26H6 C6H6	CCL4	CH2CL2	CH3BR	CHRC	CHCL3	CLC6H5	DBRCLM	ETBD10 FTC645	MECGUS MECGHS
F Samp No	PBN9106C PBN9106C PBN9106C PBN9106D PBN9106D	PBN9106D PBN9106D S1135	S1135 S1135	51135	S1153	S1153	TRPBLK16 TRPRIK16	TRPBLK16	TRPBLK16	TRPBLK16	TRPBLK16	TRPBLK16	TRPBLK16 TRPBLK16	TRPBLK16	TRPBLK16	TRPBLK16	TRPBLK16	TRPELKIO	TRPBLK16	TRPBLK16	TRPBLK16	TRPBLK16	TRPBLK16	3LK1	SLK.	3LK1	SLK1	PBLK1	PBLK1	TRPBLK16 TRPBLK16

Chemical Quality Cd 1 Report Installation: Badger 7, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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F Samp No	DBN B201B DBN B201B DBN B201B DBN B201B DBN B201B LON B902A LON B902B LON B902B LON B902B LON B903A LON B903B LON B903B LON B903B LON B903B LON B903B LON B903B LON B903B DBN 9102B PBN 9102B PBN 9102C PBN 91	
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Test Name	12DMB 13DCLB	130MB	24DCLB 2CLEVE	ACET	C13DCP	C2AVE	CZH3CL	C6H6 C6H6	CCL4	CH2CL2	CH3BR	CHSR3	CHCL3	CLC6H5	DRRCIM	ETBD10	ETC6H5	MEC6D8 MFC6H5	MEK	MIBK	MNBK	TISDCP	TCLEA	TOLEE	12DCD4	CD2CL2	ETBD10	12DCD4	CD2CL2	ETBD10	120CD4	CD2CL2	ETBD10	MECODS 12000	CD2CL2	ETBD10	コむくのいの
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Test Name	12DCD4 CD2CL2	ETBD10	MEC6D8	120CD4 CD2C1.2	ETBD10	MEC6D8	12DCD4	CD2CL2	ETBD10	MEC6D8	111TCE	TIZICE	LIDGE	12000	12DCE	12DCLB	12DCLE	12DCLP	120MB	130CLB	13DCF	14DCLB	2CLEVE	ACET	BRDCLM	Clabor	CZAVE	CZHSCL	Сене	CCL4	CDZCLZ	CHARR	CH3CL	CHBR3	CHCL3	CLC6H5	DRRCIM	ETBD10	ETC6H5	MEC6D8	MECOHS	MIRK	MNBK
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Test Name	STYR T13DCP TCLEA TCLEE	11117CE 11217CE 1120CD4 120CD6 120CCE 120CCE 120CCE 120CCE 130CCE 130CP
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Chemical Quality C I Report Installation: Badges P, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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F Samp No	S1121 S1124 S1124 S1124 TTPELK19	TRPBLK19 TRPBLK19	TRPBLK19 TRPBLK19 TRPBLK19	TRPBLK19 TRPBLK19	TRPBLK19 TRPBLK19	TRPBLK19 TRPBLK19	TRPBLK19 TRPBLK19	TRPBLK19 TRPBLK19	TRPBLK19 TODBIK19	TRPBLK19	TRPBLK19	TRPBLK19	TRPBLK19	TRPBLK19	TRPBLK19	TRPBLK19 TRPBLK19	SCK1	SCK1	PBLK1 PBLK1	SLK1	BLK1 BLK1	
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar~92

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QC Type	QCNP QCNP	OCN P	OCNP	OCNP			OCTB	OCTB	OCNP	OCTB	OCTB			OCTB	OCTB	QCIB	OCTB	OCTB		OCTB	OCTB	OCTB	OCTB		OCNP	OCTB	OCTB	OCTB		OCTB	OCTB	OCTB	OCUP		OCTB	OCTB	QCTB	QCTB	֓֞֝֟֝֞֝֟֝֟֓֟֓֓֟֓֓֟֓֓֟֟֓֓֟֟֓֓֟֟֓֓֓֟֓֓֟֝֟֓֓֟֓֓֟֓	OCTB	OCTB	OCLB
Test Name	CD2CL2 ETBD10	MEC6D8	CD2CL2	ETBD10	1111008	112705	11DCE	11DCLE	12DCD4	12DCE	12DCLB	120CLE	12DCLF	13DCLB	13DCP	13DMB	14DCLB	ZCLEVE	BOET	C13DCP	CZAVE	C2H3CL	CZHSCL	S FO	CD2CL2	CH2CL2	CH3BR	CH3CL	להם היה היה היה היה היה היה היה היה היה ה	CLCGHS	CS2	DBRCLM	ETBD10	MECAN	MEC6H5	MEK	MIBK	MNBK	STYR	TCLEA	TCLEE	TRCLE
F Samp No	SWN9105C SWN9105C	SWN9105C SWN9105D	SWN9105D	SWN9105D	COLVENA	TRPRIK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLAZS	TRDRIK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TREBLAZS	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TREDENES TODAL NOS	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TREDERES	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23	TRPBLK23

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Report	(BA)	31-mar-92
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Unit	UGL	ngr.	195	ner	ner	ner	UGL	Ton:	125	101	UGE	าอูก	195	ner	ner	ngr	195 0	151	GGL	ngr	ner ner	100	100	ner	UGL	Jon ner	125	100	ngr.	ner	Jon:	350	בי בי בי	ngr ngr	UGL	ner ner	125	ner	ner	ngr
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Method	UM33	O CO	UMBB	UM33	UM33	UM33	UM33	UM33	UM33	UM33	UM33	UM33	UM33	UM33	UM33	UM33	UM33	2 C X C	UM33	UM33	UM33	UM33	UM33	UM33	UM33	UM33	UMBB	UMBB	3	3	m r	UM33	CEMI	UM33	UM33	m	UM33	UM33	UM33	UMSS
/ Spike	000	٥٥٥		•	•			•	•			•	•		•	•	o c			•	•	•			•	ဝ်	•			•	•	•	•		20.	200	90	200		20.
QC Type	OCMB OCMB	OCWB OCWB	OCHB	OCMB	OCMB	OCMB	QCMB	OCMB		OCMB	OCMB	OCMB		OCMB	OCMB	OCMB	OCMB	2 K	OCMB	OCMB	OC WB		OCMB	OCMB	OCSP	OCMB	OCSP OCSP	OK B	OCMB	OCMB	OCMB			OCMB	OCNP	OCNE		OCNP	OCN	QCNP
Test Name	111TCE 112TCE	110CLE	120CE	12DCLB	12DCLE 12DCLE	12DMB	13DCLB	13DCP	130mb	2CLEVE	ACET	BRDCLM	2230CF	C2H3CL	C2H5CL	C6H6	CCL4	CH2CH2	CH3BR	CH3CL	CHBR3	CHCLS	CS2	DBRCLM	ETBD10	ETCCHS	MECODS	MEK	MIBK	MNBK	STYR	TISDCF	1010E	TRCLE	12DCD4	CD2CL2	ETBD10	12DCD4	CDSCL2	ETBDIO
F Samp No																													-						PBM9001D	PBM9001D	PBM9001D	PRM90030	PBM9003D	PBM9003D

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

Chemical Quality C bl Report Installation: Badger MP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

Prog					υ	ပ
ISC			H H	H		
Unit		UGL		UGL	MGL	MGL
Value	9.20 10.000	3000.000	1.000 1.400 9.580 2.000 1.610 19.100	1.000	347.000	195.000
Meas Bool	יוניססססר ני ניניניס ביניניים נינייססססר נינייססססר נינייסססססססססססס		Q Q	NO		
Analysis Date	3300-dee cc cc cc cc cc cc cc cc cc cc cc cc c	24-sep-1991	23-sep-1991 21-sep-1991 21-sep-1991 23-sep-1991 21-sep-1991 21-sep-1991 21-sep-1991	26-sep-1991	12-nov-1991	13-nov-1991
Method		66	<b>ೲೲೲೲೲೲೲ</b> ೲೲೲೲೲೲೲ	8	8	8
/ Spike		3000.000	0,000 10.500 10.400 0.000 19.900	0.000	0.000	0.000
oc Type		OCSP	OCCAND OCCAND OCCAND OCCAND OCCAND OCCAND	ОСМВ	QCRB	QCRB
Test Name	13DCLB 13DCP 13DCP 13DCP 13DCP 14DCLB 2CLEVE ACCTAVE CC13DCP CC2H3CL CC2H3CL CC2H3CL CC15CC CC16 CC16 CC16 CC1C CC16 CC1C CC1C	NH3	N N N N N N N N N N N N N N N N N N N	Toc	TDS	ALK
F Samp No	TRPBLK24  TRPBLK24				RB9101	RB9101
Lot	ZHA	ZPX	<b>E</b> 02	802	<b>S</b> 02	<b>ZQT</b>
Cab	¥	<b>V</b> F	<b>N</b> F	N.	N.	AL

Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-sep-91 to 31-mar-92

Prog	Ü		υ	υ				
ISC								
Unit	MGL	190 190 100 100 100	TOO COEF COEF COEF COEF COEF COEF COEF CO		190 001 001 001	Ten ner ner	UGL	190 190 001
Value	222.000	1.000 1.810 8.570 8.660	50.000 94.600 1440.000 1470.000 88.100	1.000 2.200 8.820 1.000	1.000 1.710 8.570 8.660	1.000 1.430 8.680 9.470	1000.000	50.000 97.600 1440.000 1520.000
Meas Bool		ដ	LI	ri ri	Lī	Ĺ	r <sub>z</sub>	LI
Analysis Date	13-nov-1991	12-dec-1991 12-dec-1991 12-dec-1991 12-dec-1991	03-dec-1991 03-dec-1991 03-dec-1991 03-dec-1991	05-dec-1991 05-dec-1991 05-dec-1991 05-dec-1991 05-dec-1991	19~dec-1991 19~dec-1991 19~dec-1991 19~dec-1991	09-jan-1992 09-jan-1992 09-jan-1992 09-jan-1992	20-dec-1991	03-jan-1992 03-jan-1992 03-jan-1992 03-jan-1992
Method Code	90	<b>0.000</b>	<b>Ტ Ტ Ტ Ტ Ტ Ტ</b>	<b>00000</b>	<b>0000</b>	<b>0000</b>	8	<b>0000</b>
/ Spike	0.000	0.000 1.690 9.140 9.140	100.000 1500.000 1500.000 0.000	0.000 1.980 9.210 9.210	0.000 1.890 9.380	0.000 1.640 9.350	0.000	0.000 100.000 1500.000 1500.000
SC TYPE	QCRB	OCKB OCSP OCSP	OCCMB OCCSP CCSP CCSP CCSP CCSP	OCKB OCSP OCSP CRB	OCCAB CCSP CSP CSP	OCSP OCSP OCSP	ОСИВ	OCMB OCSP OCSP
Test Name	HARD	O O O O	NH3 NH3 NH3 NH3 NH3 NH3 NH3 NH3 NH3 NH3	C C C C C	O O O O	OOOOO	Toc	NH3 NH3 NH3
F Samp No	RB9101		RB9101	RB9101				
Lot	702	ZRJ	ZRK	ZRL	ZRQ	2SC	<b>TSD</b>	2SE
Lab	ķ	¥	AL.	¥	¥.	¥	¥.	¥

\*\* End of Report - 5866 Records Found \*\*

A.D. LITTLE LABORATORIES - ROUND TWO GROUNDWATER

W0039213LAPP 6853-12

	Prog	υ							ပပ		
	ISC										
	Unit		TON NOT NOT NOT	750 750 700 700 700	790 790 790 790	190 190 190 190	190 190 190 190	1200	Ton not	10000	190 190 000
	Value	0.566 2.110 2.980 3.010 0.566	0.566 2.180 3.090 3.120	0.566 2.140 3.120 3.140	0.566 2.180 3.130 3.160	0.566 2.090 2.980 3.070	0.566 2.000 3.010	1.160 35.500 35.100 1.110 33.300 34.400	1.16	1.160 2.100 39.400 40.100	40.60
	Meas Bool	13 13	LI	LT	Lī	L1	LT.	נז נז	LTI	ដ	T.
•	Analysis Date	16-apr-1992 16-apr-1992 16-apr-1992 16-apr-1992 16-apr-1992	21-apr-1992 21-apr-1992 21-apr-1992 21-apr-1992	24-apr-1992 24-apr-1992 24-apr-1992 24-apr-1992	30-apr-1992 30-apr-1992 30-apr-1992 30-apr-1992	05-may-1992 05-may-1992 05-may-1992 05-may-1992	05-may-1992 05-may-1992 05-may-1992 05-may-1992	21-apr-1992 21-apr-1992 21-apr-1992 21-apr-1992 21-apr-1992 21-apr-1992 21-apr-1992	1-apr-199 1-apr-199	23-apr-1992 23-apr-1992 23-apr-1992 23-apr-1992	3-apr-199 3-apr-199 3-apr-199 3-apr-199
•	Method	\$803 \$803 \$803 \$803 \$803	\$803 \$803 \$803	\$803 \$803 \$803	\$803 \$803 \$803	\$803 \$803 \$803	\$803 \$803 \$803 \$803	0 M S C C C C C C C C C C C C C C C C C C	UW26 UW26	UW26 UW26 UW26 UW26	0426 0426 0426 0426
•	/ Spike	0.000 0.000 0.000	3.000 3.000 0000 0000	m m m m m m m m m m m m m m m m m m m	33.00 3.000 0000 0000 0000	33.000 33.000 0000 0000	mm20 0000 0000 0000	93.2200 93.2200 93.2200 93.2200	88	0.000 44.700	9499 9499
•	OC TYPE	OCMB OCSP OCSP OCRB	OCMB OCSP OCSP OCSP	OCMB OCSP OCSP	OCMB OCSP OCSP OCSP	OCMB OCSP OCSP OCSP	OCSP OCSP OCSP	OCCSP OCCSP OCCSP OCCSP OCCSP OCCSP	ocre ocre	OCCAB OCCAP OCCSP	OCCSP OCSP OCSP
	Test Name	H H H H H	H H C C	H H C C C C C C C C C C C C C C C C C C	H H G G	2222	0000 0000	2400 2400 2400 2400 2600 2600 111111111111111111111111111	24DNT 26DNT	24DNT 24DNT 24DNT 24DNT	26DNT 26DNT 26DNT 26DNT
	F Samp No	RB9201							RB-92-01 RB-92-01		
	Lot	DEA	DEB	DEC	DED	DEE	730	7 T		EFU	
	Lab	Ŋ.	¥.	<b>X</b> F	AL	AL	<b>V</b>	<b>N</b>		AL	

Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

Prog						
ISC						
Unit	190 190 190 190 190 190 190	190 190 190 190 190 190	190 190 190 190 190 190 190	190 190 190 190 190 190	190 190 190 190 190 190	190 190 190 190 190
Value	0.426 2.0426 38.700 10.000 35.000 38.200	1.160 1.980 34.200 37.100 1.110 33.400 35.500	1.160 1.990 37.200 1.110 1.910 34.500	1.160 35.100 36.100 1.110 34.700	1.160 34.900 35.100 1.110 35.000 35.000	1.160 1.980 36.400 37.800 1.110
Meas Bool	LT TI	<u> </u>	t i	LT LT	בן בן	נז נז
Analysis Date	27-apr-1992 27-apr-1992 27-apr-1992 27-apr-1992 27-apr-1992 27-apr-1992 27-apr-1992	02-may-1992 02-may-1992 02-may-1992 02-may-1992 02-may-1992 02-may-1992 02-may-1992	05-may-1992 05-may-1992 05-may-1992 05-may-1992 05-may-1992 05-may-1992 05-may-1992	11-may-1992 11-may-1992 11-may-1992 11-may-1992 11-may-1992 11-may-1992 11-may-1992	15-may-1992 15-may-1992 15-may-1992 15-may-1992 15-may-1992 15-may-1992 15-may-1992	29-may-1992 29-may-1992 29-may-1992 29-may-1992 29-may-1992 29-may-1992
Method	0W26 0W26 0W26 0W26 0W26	0W26 0W26 0W26 0W26 0W26	UW26 UW26 UW26 UW26 UW26 UW26	UN26 UN26 UN26 UN26 UN26 UN26	0W26 0W26 0W26 0W26 0W26	UW26 UW26 UW26 UW26 UW26
/ Spike	0.00 44.2380 0.000 0.000 0.900 900 900	0.000 42.200 42.200 0.000 39.200 39.200	440.000 40.600 0.600 32.160 900 900 900 900	0.000 440.060 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.00 40.800 0.000 0.000 440 400 400 400 400 400 4	0.000 42.000 0.000 2.270
oc Type	OCCAP CCSP CCSP CCSP CCSP CCSP CCSP CCSP	OCCAB CCAB CCAB CCAB CCAB CCAB	OCCAB CCAB CCAB CCAB CCAB CCAB CCAB CCAB	OCCAS PER PER PER PER PER PER PER PER PER PER	00000000000000000000000000000000000000	OCCAP OCCAP OCCAP OCCAP
Test Name	240NT 240NT 240NT 260NT 260NT 260NT	24DNT 24DNT 24DNT 26DNT 26DNT 26DNT	240N 240N 240N 240N 260N 260N 260N 7	240NT 240NT 240NT 260NT 260NT 60NT	2450NT 2450NT 2450NT 2650NT 2650NT 2650NT	24DNT 24DNT 24DNT 24DNT 26DNT
F Samp No						
Lot	EFV	34 34	Z X	Z Z	2 4 3	202
Lab	<b>V</b>	<b>A</b> L	<b>AL</b>	NF.	NT.	<b>A</b> E

Chemical Quality of Ol Report Installation: Badge P, WI (BA) Analysis Date Range: 01-5pt-92 to 01-sep

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Lab	Lot	F Samp No	Test Name	oc Type	/ Spike	Method Code	Analysis Date	Meas	Value	Unit	ISC	Prog
AL	EGC		26DNT 26DNT	QCSP QCSP	42.200	UW26 UW26	29-may-1992 29-may-1992		38.300 40.100	UGL		
¥r.	FML	RB9201	ល ល ល ល ល ២ ២ ២ ២ ២ ២	OCSP OCSP OCSP OCRB	0.000 15.000 0.000	SD24 SD24 SD24 SD24 SD24	05-may-1992 05-may-1992 05-may-1992 05-may-1992 05-may-1992	ri ri	4.100 7.200 15.600 15.900	ner ner ner ner		ပ
. AL	FMM	RB9201	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	OCSP OCSP OCSP OCRB	0.000 15.000 0.000	SD24 SD24 SD24 SD24 SD24	05-may-1992 05-may-1992 05-may-1992 05-may-1992 05-may-1992	11 11	48.800 14.200 14.800 48.800	TON NOT NOT NOT NOT NOT NOT NOT NOT NOT		ပ
¥F.	FMN	RB9201	<b>9 9 9 9 9 9 9 9 9 9</b>	QCCNB QCCSP QCCSP QCRB	0.000 3.000 3.000 0.000	SD24 SD24 SD24 SD24 SD24	30-apr-1992 30-apr-1992 30-apr-1992 30-apr-1992 30-apr-1992	11 11	26.800 0.718 2.850 2.880 26.800			υ
¥.	FHO	RB9201	11111	QCCMB QCCSP QCCSP QCCSP	0.000 7.500 30.000 0.000	<b>Ტ</b> ������������������������������������	19-may-1992 19-may-1992 19-may-1992 19-may-1992 19-may-1992	11 11	7.500 6.700 27.500 28.700 7.500	ngr ngr ngr ngr		υ
<b>A</b> E	FMP	RB9201		OCCAB OCCSP OCCSP OCRP	0.000 30.000 30.000	SD24 SD24 SD24 SD24 SD24	11-may-1992 11-may-1992 11-may-1992 11-may-1992 11-may-1992	LT LT	7.800 28.000 28.600 4.740	חפר חפר חפר חפר		υ
<b>A</b> Ľ	FMQ		<b>80 80 80</b> 80 80 80 80 80 80 80 80 80 80 80 80 80	OCMB OCSP OCSP	0.000 7.500 30.000	\$024 \$024 \$024 \$024	19-may-1992 19-may-1992 19-may-1992 19-may-1992	Ħ	4.740 7.300 27.100 28.300	ngr ngr ngr		
<b>A</b> L	FMR		9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	QCMB QCSP QCSP QCSP	0.000 3.000 0.000	SD24 SD24 SD24 SD24	01-may-1992 01-may-1992 01-may-1992 01-may-1992	្រុ	26.800 0.812 2.780 3.080	ner ner ner		
¥.	FMS		ASS SA	OCMB OCSP OCSP OCSP	0.000 5.000 15.000	SD24 SD24 SD24 SD24	06-may-1992 06-may-1992 06-may-1992 06-may-1992	LT	3.090 4.600 14.300 14.600	ner ner ner ner		
<b>A</b> Ľ	FMT		លល ២៣៣	QCMB QCSP QCSP	0.000 8.000 15.000	SD24 SD24 SD24	14-may-1992 14-may-1992 14-may-1992	ដ	3.090 7.400 14.000	ngr ngr ngr		

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Value	14.500	7.500 7.200 28.000 28.300	4.740 7.200 26.900 27.600	26.800 0.762 2.970 2.990	3.090 4.900 13.800 13.900	3.090 7.200 13.700 14.400	7.500 7.603 27.000 28.600	4.740 7.330 30.600 33.200	26.800 0.762 2.970 3.040	3.090 4.700 13.500 13.600	3.090 7.500 15.500 15.800
Meas Bool		r.i	ដ	LT.	ដ	ដ	LI	LT	LT	LT	LT
Analysis Date	14-may-1992	15-jun-1992 15-jun-1992 15-jun-1992 15-jun-1992	22-may-1992 22-may-1992 22-may-1992 22-may-1992	04-may-1992 04-may-1992 04-may-1992 04-may-1992	07-may-1992 07-may-1992 07-may-1992 07-may-1992	15-may-1992 15-may-1992 15-may-1992 15-may-1992	29-may-1992 29-may-1992 29-may-1992 29-may-1992	20-may-1992 20-may-1992 20-may-1992 20-may-1992	04-may-1992 04-may-1992 04-may-1992 04-may-1992	07-may-1992 07-may-1992 07-may-1992 07-may-1992	15-may-1992 15-may-1992 15-may-1992 15-may-1992
Method	SD24	<b>ၯၯၯ</b> ၯၹၹၯ	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	<b>ೲ</b>	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24
/ Spike	15.000	0.000 7.500 30.000	0.000 7.500 30.000	0.000 3.000 3.000	0.000 5.000 15.000	0.000 8.000 15.000	0.000 7.500 30.000 30.000	0.000 7.500 30.000	0.000 3.000 3.000	0.000 5.000 15.000	0.000 8.000 15.000 15.000
oc Type	QCSP	QCMB QCSP QCSP QCSP	QCSP QCSP QCSP	OCSP OCSP OCSP	OCKB OCSP OCSP	OCSP OCSP OCSP	OCSP OCSP OCSP	OCMB OCSP OCSP	OCMB OCSP OCSP OCSP	OCMB OCSP OCSP OCSP	OCMB OCSP OCSP
Test Name	SE	1111	82 63 63 64 64 64	<b>P P P P P P P P P P</b>	<b>388</b> <b>388</b> <b>388</b>	ល ល ល ល ខា ចា ខា ខា	1111	81 81 81 81 61 61 61	9999 <b>999</b> 9	78 78 78 78 78 78	ល ល ល ល ភា ភា ភា ភា
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Chemical Quality of Report Installation: Badg AP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Unit	750 750 750 750	190 100 100 100	Ton ner ner ner	190 190 100 100	190 001 001	Ton ner ner	190 190 001 001	TON COL COL COL COL COL COL COL COL COL COL	Ton ner ner ner	Ton ner ner ner	UGL
Value	7.500 7.710 29.200 29.500	3.090 5.300 14.000	3.090 7.700 13.500 13.900	4.740 7.200 28.300 28.400	7.500 9.400 29.800 30.100	4.740 8.400 32.000	3.096 4.500 14.200 14.400	3.090 7.400 14.100	0.316 0.726 2.830 2.990	7.500 7.360 30.900 31.500	0.900
Meas	LT	ដ	ដ	ri Ti	ដ	ដ	ដ	Lī	ដ្ឋ	ri Ti	LI
Analysis Date	20-may-1992 20-may-1992 20-kay-1992 20-may-1992	20-may-1992 20-may-1992 20-may-1992 20-may-1992	18-may-1992 18-may-1992 18-may-1992 18-may-1992	26-may-1992 26-may-1992 26-may-1992 26-may-1992	20-may-1992 20-may-1992 20-may-1992 20-may-1992	21-may-1992 21-may-1992 21-may-1992 21-may-1992	22-may-1992 22-may-1992 22-may-1992 22-may-1992	18-may-1992 18-may-1992 18-may-1992 18-may-1992	14-may-1992 14-may-1992 14-may-1992 14-may-1992	21-may-1992 21-may-1992 21-may-1992 21-may-1992	20-apr-1992
Method	<b>6666</b> 66	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	<b>0000</b>	\$024 \$024 \$024 \$024	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	SD24 SD24 SD24 SD24	<b>0000</b>	ONO6
/ Spike	0.000 7.500 30.000	0.000 5.000 15.000	0.000 8.000 15.000	0.000 7.500 30.000 30.000	0.000 7.500 30.000	0.000 7.500 30.000	0.000 5.000 15.000	0.000 8.000 15.000	0.000 3.000 3.000	0.000 7.500 30.000	000.0
oc Type	QCMB QCSP QCSP QCSP	QCMB QCSP QCSP	QCMB QCSP QCSP	QCMB QCSP QCSP QCSP	OCMB OCSP OCSP OCSP	QCMB QCSP QCSP QCSP	QCCAB QCCSP QCSP QCSP	QCCAB QCSP QCSP QCSP	OCMB OCSP OCSP	QCCMB QCCNP QCCSP	ОСМВ
Test Name	1111	SS SS A A S B S S S S S S S S S S S S S S S S S S	N N N N	8888 6666	1111	8 8 8 8 8 8 8 8	988 988 988 988	ល ល ល ល ព ៧ ៧ ៧	AG AG AG AG	1111	NNDPA
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Lab	AL	¥	NT.	AL.	NF.	Ŋ.	At.	AL	AL.	A.	AL

Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Unit	ner ner ner ner	Ton Ner ner ner	ner ner ner	Ten ner ner ner	Ten ner ner ner	Ton nor nor nor	Ton ner ner ner	Ton ner ner ner	Ten ner ner ner	190 190 001 001	ngr
Value	2.040 14.300 15.800 0.990	0.900 2.040 14.300 15.600	0.900 2.100 14.600 15.800	0.900 1.670 15.200 16.100	0.900 1.860 15.900 16.300	0.900 1.770 14.700 15.100	0.900 1.610 10.800 10.800	0.900 1.867 13.263	0.900 1.710 13.700 13.900	0.900 1.670 13.800 14.200	273.000
Meas Bool	LT	LI	LT	LI	LI	LI	r1	LT	LT	r <sub>1</sub>	Ľ
Analysis Date	20-apr-1992 20-apr-1992 20-apr-1952 20-apr-1992	21-apr-1992 21-apr-1992 21-apr-1992 21-apr-1992	21-apr-1992 21-apr-1992 21-apr-1992 21-apr-1992	22-apr-1992 22-apr-1992 22-apr-1992 22-apr-1992	23-apr-1992 23-apr-1992 23-apr-1992 23-apr-1992	27-apr-1992 28-apr-1992 28-apr-1992 28-apr-1992	18-may-1992 18-may-1992 18-may-1992 18-may-1992	19-may-1992 19-may-1992 19-may-1992 19-may-1992	20-may-1992 20-may-1992 20-may-1992 20-may-1992	21-may-1992 21-may-1992 21-may-1992 21-may-1992	13-apr-1992
Method	0000 0000 0000 0000	90ND 0NO 0NO 0NO	TTO8								
/ Spike	1.810 15.100 15.100 0.000	0.000 1.810 15.100 15.100	0.000								
oc Type	OCSP OCSP CRB	OCSP OCSP OCSP	QCMB QCSP QCSP	QCSP QCSP QCSP	OCSP OCSP OCSP	QCMB QCSP QCSP	QCCMB QCSP QCSP	OCSP OCSP OCSP	OCKB OCSP OCSP OCSP	QCMB QCSP QCSP	QCMB
Test Name	NNDPA NNDPA NNDPA NNDPA	5									
F Samp No	RB9201										
Lot	GBO	GBP	ÇBQ	GBR	GBS	GBT	GBU	GBV	GBW	GBX	160
Lab	<b>A</b> E	¥	AL	<b>A</b> L	Ą	<b>A</b> L	¥F	AL	J.	AL	AL

Chemical Quality q bl Report Installation: Badge P, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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	Weas	150 150 150 150 150 150 150 150 150	150 061 061 061 061 061 061	100 100 100 100 100 100 100 100 100	המבר המפר המפר המפר המפר המפר המפר המפר	מפר המפר המפר המפר המפר המפר המפר המפר ה	תפר תפר תפר תפר
	Value	\$05.000 1500.000 1560.000 137.000 4070.000 4140.000	273.000 480.000 1500.000 1530.000 137.000 183.000 4520.000	273.000 408.000 1410.000 1450.000 137.000 198.000 3930.000	273.000 514.000 1510.000 1570.000 246.000 3970.000	273.000 473.000 1460.000 1500.000 210.000 4000.000	273.000 527.000 1480.000 1490.000 137.000
	Meas	Lī	TI II	r ri	t ti	t i	ដ ដ
	Analysis Date	13-apr-1992 13-apr-1992 13-apr-1992 13-apr-1992 13-apr-1992 13-apr-1992 13-apr-1992	14-apr-1992 14-apr-1992 14-apr-1992 14-apr-1992 14-apr-1992 14-apr-1992 14-apr-1992	15-apr-1992 15-apr-1992 15-apr-1992 15-apr-1992 15-apr-1992 15-apr-1992 15-apr-1992	16-apr-1992 16-apr-1992 16-apr-1992 16-apr-1992 16-apr-1992 16-apr-1992 16-apr-1992	17-apr-1992 17-apr-1992 17-apr-1992 17-apr-1992 17-apr-1992 17-apr-1992 17-apr-1992	24-apr-1992 24-apr-1992 24-apr-1992 24-apr-1992 24-apr-1992
12 12 12	Method	11108 11108 11108 1108	71708 71708 71708 71708 71708	11108 11108 11108 1108	11108 11108 11108 1108	11108 11108 11108 1108	1108 1108 1108 1108
	pe / Spike	\$05.000 1520.000 1520.000 4090.000 6090.000	\$05.000 1520.000 1520.000 4090.000 4090.000	505.000 1520.000 1520.000 205.000 4090.000	505.000 1520.000 1520.000 205.000 4090.000	505.000 1520.000 1520.000 205.000 4090.000	0.000 505.000 1520.000 1520.000
7 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	27. 17.	OCCUPATION OCCUPATION	OCCAP OCCAP OCCAP OCCAP	OCCAR OCCA OCCA	00000000000000000000000000000000000000	OCCAN OCCAN	OCMB OCSP OCSP OCMB
	Test Name	255888558 86448 86448	25555555555555555555555555555555555555	55555555555555555555555555555555555555	98888 444	000 000 000 000 000 000 000 000 000 00	ភ្នំភ្នំភ្នំ ស្ត្រីក្រុង
	F Samp No	RB9201 RB9201					
	Lot	160	IGD	IGE	IGF	IGG	ІСН
	Lab	<b>A</b>	<b>AL</b>	<b>AL</b>	AL.	AL	AL

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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	Unit	ner ner	190 100 100 100 100	790 790 700 700 700	ner ner ner	ner ner ner ner			111111111111111111111111111111111111111
	Value	212.000 3920.000 3920.000	5.260 10.400 73.400 75.200 5.260	5.260 9.390 70.600 72.100	5.260 10.400 75.500	5.260 10.300 75.700	273.000 466.000 1480.000 1590.000 137.000 204.000 3860.000	273.000 501.000 1540.000 1560.000 254.000 4010.000	273.000 460.000 1510.000 1550.000 137.000 207.000 3940.000
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	Analysis Date	24-apr-1992 24-apr-1992 24-apr-1992	28-apr-1992 28-apr-1992 28-apr-1992 28-apr-1992 28-apr-1992	28-apr-1992 28-apr-1992 28-apr-1992 28-apr-1992	28-apr-1992 28-apr-1992 28-apr-1992 28-apr-1992	07-may-1992 07-may-1992 07-may-1992 07-may-1992	06-may-1992 06-may-1992 06-may-1992 06-may-1992 06-may-1992 06-may-1992 06-may-1992	07-may-1992 07-may-1992 07-may-1992 07-may-1992 07-may-1992 07-may-1992 07-may-1992	05-may-1992 05-may-1992 05-may-1992 05-may-1992 05-may-1992 05-may-1992 05-may-1992
	Method	1108 1108 1108	1810 1810 1810 1810	1710 1710 1710	1710 1710 1710	1710 1710 1710	11108 11108 11088 1108	11108 11108 1108 1108	1108 1108 1108 1108 1108
	e / Spike	205.000 4090.000 4090.000	0.000 10.000 75.000 0.000	0.000 10.000 75.000	0.000 10.000 75.000 75.000	0.000 10.000 75.000 75.000	0.000 1520.000 1520.000 205.000 4090.000	0.000 1520.000 1520.000 205.000 4090.000	0.000 1520.000 1520.000 20.000 4090.000
7	OC TYP	ocsp ocsp ocsp	OCSP OCSP OCSP OCRB	OCSP OCSP OCSP	OCCAB OCSP OCSP	OCCAB OCSP OCSP	ACCENTAGE OF CONTROL O	OCCAB OCCAB OCCAB OCCAB	OCSP OCSP OCSP OCSP OCSP OCSP
	Test Name	804 804	TINN TINN TINN TINN	NNNN HHHH HHHH	HINN	NNN HHIIN HHI	000 000 000 000 000 000 000 000 000 00	S S S S S S S S S S S S S S S S S S S	11111111111111111111111111111111111111
	F Samp No		RB9201						
	Po	ІСН	163	IGK	IGL	IGM	160	IGP	160
	Lab	<b>N</b> F	¥.	AL.	¥.	YF.	¥	¥	7

Chemical Quality ol Report Installation: Badg P, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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ISC												
Unit	190 190 190 190	Ten ner ner ner	Ten ner ner	190 190 190 190 190	ner	190	ner	Jen Ger	790 790 700 700	790 790 700 700	Ton ner ner ner	Ton
Value	5.260 9.020 74.400 74.500	5.260 9.680 72.700 74.600	273.000 454.000 1520.000 1880.000	37.00 20.00 00.00	23.00 40.00 60.00	1440.000 137.000 3790.000 3900.000	0.509 0.846 7.040	50.	0.509 0.941 8.160 10.200	0.509 0.978 7.730 7.730	0.509 0.880 7.670 7.900	81.500
Meas	LT	LT	LI	LI	LT	LI	LT	ដ	LT	LT	LT	LI
Analysis Date	07-may-1992 07-may-1992 07-may-1992 07-may-1992	07-may-1992 07-may-1992 07-may-1992 07-may-1992	21-may-1992 21-may-1992 21-may-1992 21-may-1992	1-may-199 1-may-199 1-may-199 1-may-199	6-may-199 6-may-199 6-may-199	26-may-1992 26-may-1992 26-may-1992 26-may-1992 26-may-1992	24-apr-1992 24-apr-1992 24-apr-1992	4-apr-199 5-apr-199	06-may-1992 06-may-1992 06-may-1992 06-may-1992	13-may-1992 13-may-1992 13-may-1992 13-may-1992	30-may-1992 30-may-1992 30-may-1992 30-may-1992	27-jun-1992 27-jun-1992
Method	1F10 1F10 1F10	1710 1710 1710	1108 1108 1108	1108 1108 1108	1108 1108	1108 1108 1108	UW42 UW42	UW42 UW42	UW42 UW42 UW42	UW42 UW42 UW42	UW42 UW42 UW42	\$\$16 \$\$16
/ Spike	0.000 10.000 75.000	0.000 10.000 75.000	0.000 505.000 1520.000	8888	8888	000	0.000	40	0.000 1.010 8.060	0.000 0.984 8.370 8.370	0.000 0.929 7.630	0.000
OC TYPE	QCMB QCSP QCSP	QCMB QCSP QCSP	OCMB OCSP OCSP	OCSP OCSP OCSP	OCENT OCENT	000000 00000 00000 00000 00000	OCKB OCKB OCKS	OCSP OCRB	OCCMB OCCSP OCCSP	OCCM CCSP CCSP CCSP	OCCMB OCCNP OCCNP	QCMB
Test Name	TIN TIN TIN	TIN TIN TIN	ಕಕಕಕ	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ಕಕಕಃ	8004 8044 8044	OOOO	O O	N N C C C C C C C C C C C C C C C C C C	N N C C C N N C C	N C C C C	AL AL
F Samp No								RB9201				
Lot	IGR	IGS	161		ıgx		LBT		LBU	LBV	LBX	MEZ
Lab	AL	<b>A</b> L	AĽ		AI.		Af.		AI.	AL.	ML	AL

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ISC	E4		
Unit		150 150 150 150 150 150 150 150	
Value	167.000 11370.000 2700.000 3060.000 1123.000 127.000 503.300 512.000 516.000 1030.000 1030.000 1030.000 1030.000 1030.000 1030.000	24.64.0 39.420 39.420 4.420 9.020 86.120 86.100	81.500 184.000 808.000 1540.000 13.900 13.900 14.00 1.750 1.750 1.750 36.600
Meas Bool	0 11 11 11 11	ដ ដ	11 11 11 11 11 11 11 11 11 11 11 11 11
Analysis Date	27	100-1un-1992 100-1un-1992 100-1un-1992 100-1un-1992 100-1un-1992 100-1un-1992 100-1un-1992	07-14 07-14 07-14 07-17 07-17 07-17 07-17 07-17 07-17 07-17 07-17 07-17 07-17 07-17 07-17 07-17 07-17 07-17 0992
Method Code	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
pe / Spike	160 150 150 150 150 150 150 150 150 150 15	on 44 on 44 on 60 on	1600.000 1600.000 1600.000 1500.000 115.000 100.000 100.000 100.000 100.000 100.000
AXE 20	COSS PROCESS P	OCCAB CCSP CCSP CCSP CCSP CCSP CCSP CCSP CCS	POPOPOPOPOPOPOPOPOPOPOPOPOPOPOPOPOPOPO
Test Name	NNN NNN NNN NNN NNN NNN NNN NNN NNN NN	88888888	
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Value				3362 3362 3362 300 300 300	2300.000 388.100 388.400 388.000 6.880 15.300		
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Test Name	555888	388888	<b>55555</b> 55	) C F F F F K K K > D IN IN IN IN IN IN IN IN IN IN IN IN IN	NNN G G G G	Z Z Z Z Z Z Z Z Z	
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	ISC			F	×
	Unit	150 150 150 150 150 160 160 160	150 150 150 150 150 150 150		
	Value	4.000 59.400 60.600 19.400 150.000	2.00.00 3.00.00 4.00.00 6.00.00 1.00.00 1.00.00 1.00.00 1.00.00	356.000 386.000 386.000 384.000 40.600 40.600 44.000 1580.000 3410.000 3410.000 120.000 120.000	0.341 1.2341 5.170 1.000 1.42.640 37.100
	Meas	LI II	LI LI	ti ti du ti	בן בן
-%2 to OI-sep-%2	Analysis Date	07-jul-1992 07-jul-1992 07-jul-1992 07-jul-1992 07-jul-1992 07-jul-1992 07-jul-1992	11-jun-1992 11-jun-1992 11-jun-1992 11-jun-1992 11-jun-1992 11-jun-1992 11-jun-1992	299-100-100-100-100-100-100-100-100-100-1	28-jun-1992 28-jun-1992 28-jun-1992 28-jun-1992 28-jun-1992 28-jun-1992 28-jun-1992 28-jun-1992
e: oi-apr	Method	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Date Kang	/ Spike	0.000 64.000 64.000 160.000 160.000	0 4 4 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2800.000 2800.000 2800.000 2800.000 2800.000 2800.000 2800.000 2800.000 2800.000 120.000	000.00 000.00 000.00 000.00
Analysis	oc Type	OCSP OCSP OCSP OCSP OCSP OCSP	OCCAB OCCAB OCCAB OCCAB OCCAB	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	OCCONTRACTOR OCCON
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	Value	4.470	4.90	6	4.29	101	4.80	9.30	4.10	0 a	13.00	5.00	51.20	14.00	. 4	77.00	19.40	40.60	98	07.70	81.5	200	90	0.09	ທ໌ເ	5.2	9	9.0	9	9		6.6	96.2	0.0	7 4 7 5 6 6	2.6	0.0	,,	5.0	50.400
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Test Name	BZALC CHRY	CL6CP	CLDAN	CPMSO	CPMS02	DBHC	DBZFUR	DEP DEPD4	DITH	DLDRN	ORP	DNOP	DNOPD4	ENDRN	ESFS04	FANT	FLRENE	HPCL	HPCLE	ICDPYR	LIN	MEXCLR	MLTHN	NBN	NBDS	NONPA	OXAT	PCP	PHANTR	בטמשם	PPDDE	PPDDT	PRTHN	130804	DEPD4	DNOPD4 NBD5
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Test Name	BENZOA BGHIPY	BZALC	CL6BZ	CL6CP CL6ET	CLDAN	CPMS	CPMS02	DBAHA	DBZFUR	DEP	DITH	DLDRN	DMP	DNO	DNOPD4	ENDRN	ENDRNK	FANT	FLRENE	HCBD	HPCLE	ICDPYR	ISOPHR	MEXCLR	MLTHN	NB	NBDS	NNOPA	OXAT	PCP	PHENOL	PPDDD	PPDDT	PYR	130804
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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	Test Name	CL682 CL6CP	CLDAN	CPMSO	CPMS02	DBHC	DBZFUR	DEPD4	DITH	DMP	DNBP	DNOPD4	ENDRN	ESFS04	FANT	HCBD	HPCL	ICDPYR	ISOPHR	MEXCLR	NAP	NB NBDS	NDNPA	NNDXA ATAXO	PCP	PHENOL	PPDDD	PPDDT	PYR	13DBD4 DEPD4	DNOPD4 NBD5	130BD4 DEPD4
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	Test Name	CL6BZ CL6CP	CLEET	CPMS	CPMSO	DBAHA	DBHC	DBZFUR	DEPD4	DITH	DED KN	DNBP	DNOP	ENDRN	ENDRNK	EVFS04	FLRENE	HCBD	HPCLE	ICDPYR	LIN	MEXCLR	NAP	NB NB NB NB	NDNPA	NNDPA	PCP	PHANTR	PPDDD	PPDDE	PPDDT	PYR	13DBD4 DEPD4	DNOPD4	NBD5 13DBD4	DEPD4
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Test Name	CL6CP	CLDAN	CPMS	CPMS02	DBAHA		DEP	DEPD4	HTIO	DMP	DNBP	DNOP	DNOPD4	ENDRINK	ESFS04	FANT	HCBD	HPCL	HPCLE	ISOPHR	LIN	MEXCLR	ALTHA	NB	NBDS	NUNPA	OXAT	PCP	PHENOL	PPDDD	PPODE	PRTHN	PYR	130804	DNOPD4	NBDS	130804	DNOPD4
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Test Name	2NANIL	2NP 3 JOCED	3NANIL	46DN2C	46KPFE 4CANIL	4CL3C	4CLPPE	4MP	4NANIL		ACLDAN	AENSLF	ALDRN	ANAPNE	ANTRC	BZCEXM	BZCIPE	BZEHP	BAANTR	BAPYR	BBFANT	BBZP	BENSLF	BENZOA	BGHIPT	BZALC	CHRY	CT.6CP	CLEET	CLDAN	CERES	CPMS02	DBAHA	DBHC	DEP	DEPD4	DITH	DEDRA	DNBP	DNOP
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Test Name	DNOPD4 ENDRN	ESFSO4	Fant Flrene	HCBD	HPCLE	ICDPYR	ISOPHR	MEXCLR	MLTHN	NB	NBDS NDNPA	NNDPA	OXAT	PHANTR	PHENOL	PPDDE	PPDDT	PKTHN	130804	DEPD4	NBDS	130804	DEPD4	NBDS	130804	DEPU4	NBDS	130804	DNOPD4	NBDS	130804	DNOPD4	•	DEPD4	DNOPD4
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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vate kange:	/ Spike	86	36	8	8	86	36	36	36	35		8	8	8	96	96	88	8	8	8	86	35	38	8	8	96	30	8	8	86		8	86	30	88	8	88	50	88	8	98	000.	8
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	Test Name	2NANIL	33DCBD	3NANIL	46DN2C	4BRPPE	4CANIL	40L30	4CLFFE AND	ANANTI.	4NP	ABHC	ACLDAN	AENSLF	ALDRN	ANAPRE	ANTRC	BZCEXM	B2CIPE	B2CLEE	BZEHP	BARNIK	BREANT	BBHC	BBZP	BENSLF	BGHIPY	BKFANT	BZALC	CHRY	01.658	CLEET	CLDAN	CERS	CPMS02	DBAHA	DBHC	DBZFUR	DEPD4	DITH	DLDRN	DNBP	DNOP
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Test Name	DNOPD4 ENDRN ENDRNX	ESFECT FANT	FLRENE	HPCL	HPCLE	ISOPHR	LIN	MITHN	NAP	8 Z Z	NDNPA	NNDPA	OXAT	PHANTR	PHENOL	PPDDD	PPDDT	PRTHN	PYR	130804	DNOPD4	NBDS	130804	DNOPD4	NBDS	130804	DEFU4	NBDS	13DBD4	DEPD4	NBDS	13DBD4	DEPD4	2 2	13DBD4	DEPD4	DIOFE
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/ Spike	0.00	88	8	86	8	8	36	38	88	86		8	88	36	38	8	8	98	38	8	96		8	86	35	38	8	96	88	8	36	99	8	96	98	88	38	8
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Test Name	46DN2C 4BRPPE	4CANIL 4CL3C	4CLPPE	4MP 4NANIL	4NP	ABHC	ACLUAN	ALDRN	ANAPNE	ANAPYL	BOCEXM	B2CIPE	B2CLEE	BABUTO	BAPYR	BBFANT	BBHC	882P	BENZOR	BGHIPY	BKFANT	CHRY	CL6BZ	CLECP		CPMS	CPMSO	CPMSOZ	DBHC	DBZFUR	DEP	DITH	DLDRN	OWL	DNOP	DNOPD4	ENDRNK	ESFS04
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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	Test Name	HPCLE ICDPYR ISOPHR	LIN MEXCLR	MLTHN NAP	NB NB NB NB NB	NDNPA	NNDPA OXAT	PCP	PHENOL	PPDDD	PPDDT	PRTHN	130804	DEPD4	NBD5	130804	DNOPD4	NBDS	DEPD4	DNOPD4	130804	DEPD4	NBD5	130804	DEPD4 DNOPD4	NBDS	13DBD4 DEPD4	DNOPD4	NBDS	130804	DNOPD4	NBD5	DEPD4	DNOPD4
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	Test Name	NBDS 13DBD4 DEPD4 DNOPD4 NBDS 13DBD4 DEPD4 DNOPD4 NBDS 13DBD4 DEPD4 DEPD4 DEPD4 DEPD4 DEPD4	1237CB 1247CB 120CLB 130BD4 130CLB	245TCP 245TCP 240CLP 240MPN	24DNT 26DNT 2CLP	2CNAP 2MNAP 2MP	2NANIL 2NP 33DCBD	46DN2C 4BRPPE 4CANIL	4CL3C 4CLPPE 4MP	4NP ANP ABHC	ACLDAN	ALDRN ANAPNE ANAPYL	ANTRC B2CEXM
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Test Name	B2CIPE B2CLEE B2EHP BAANTR BBFANT BBFANT	BBZP BENSLF BENZOA BGHIPY RKFANT	BZALC CHRY CL6BZ CL6CP	CLOEI CLDAN CPMS CPMSO CPMSO2 DBAHA	DBZFUR DEP DEPD4 DITH	DAP DAP DAP DAOP DAOP DAOP	ESTSOA FANT FLRENE HPCL HPCL	LCDFIR LSOPHR LIN METHN NAP NBDS NDDPA OXAT

Report	WI (BA)	to 01-sep-92
Chemical Quali	Installation: Badge P,	Analysis Date Range: 01-apr-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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	F Samp No	BN9106 BN9106 BN9106 BN9106 PN8902	PN8902 PN8902 PN9102 PN9102 PN9102	SPN9103D SPN9103D SPN9103D SPN9104D SPN9104D SPN9104D SPN9104D						
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Test Name	C6H6 CCL4 CD2CL2 CH2CL2	CH3BR CH3CL	CHCL3	CS2	ETBD10	etchs Mec6d8	MEC6HS	MIBK	MNBK	TIBDCP	TCLEE	THOTE	111TCE 112TCE	11DCE 11DCLE	120CD4	120CLB	12DCLE 12DCLP	120MB	130CP	13DMB	2CLEVE	ACET	C12DCE	CLSDCF	C2H3CL C2H5CL	26H6 26H6	CCL4	CH2CL2 CH3BR
F Samp No	TRPBLK1 TRPBLK1 TRPBLK1	TRPBLK1	TRPBLKI	TREBLKI	TRPBLK1	TRPBLK1 TRPBLK1	TRPBLK1	TRPBLKI	TRPBLK1 TRPBLK1	TRPBLK1 TPDBT K1	TRPBLK1	TUTBENT															•	

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	Test Name	CD2CL2 ETBD10 MEC6D8 12DCD4	CD2CL2 ETBD10	120CD4	CD2CL2	MEC6D8	12DCD4	CD2CL2	MEC6D8	12DCD4	ETBD 10	MEC6D8	111TCE	1121CE 11DCE	11DCLE	12DCD4	12DCLB	12DCLE	120CLP 120MB	130CLB	130KB	14DCLB	ACET	BRDCLM	CIZDCE	CZAVE	C2H3CL C2H5CL	Сене	CCL4	CH2CL2	CH3BR	CHBR3	CHCL3	CS2
	F Samp No	PBN8201C PBN8201C PBN8201C PBN8202A								51129	S1129 S1129				•			•	• •	TRPBLK-2				-							TRPBLK-2	TRPBLK-2	TRPBLK-2	TRPBLK-2
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Test Name	ACET	C12DCE	CZAVE	C2H3CL C2usC1	775H2C C6H6	CCL4	CD2CL2	CH2CL2	CHOCK	CHBR3	CHCL3	CLC6H5	CS2	ETBD10	ETC6H5	MEC6D8	MEC6H5	3EX	MNBK	STYR	T13DCP	TCLEA	TCLEE	12000	CD2CL2	ETBD10	MEC6D8		ETBD10	MEC6D8	120CD4	ETRO 10	MEC6D8	12DCD4	CD2CL2	ETBOTO PACANA	12DCD4	CD2CL2	ETBD10 MECADA	12DCD4
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Chemical Quality of Installation: Badge Analysis Date Range: 01-ap

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Test Name	CCL4 CD2CL2 CH2CL2 CH3BR	CHBR3 CHCL3 CLC6H5	CS2 DBRCLM ETBD10	ETCGHS MECGD8	MEK MIBK	MNBK STYR Tlancd	TCLEA	TRCLE	112TCE 11DCE	11DCLE 12DCD4	12DCE 12DCLB	120CLE 120CLE	120KB 120KB	13DCP	13DMB	2CLEVE	BRDCLM	C12DCE C13DCP	C2AVE C2H3CL	CZHSCL	CCL4 CD2CL2	CH2CL2 CH3BR	CH3CL CHBR3
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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Test Name	11DCE 11DCLE 12DCD4	12DCE	12DCLE	12DCLP 12DVB	13DCLB	13DCP	13DMB	2CLEVE	ACET	BROCLA	C13DCP	CZAVE	CZHJCL	C6H6 C6H6	CCL4	CD2CL2	CHICET	CH3CL	CHBR3	CHCL3	CECOR3	DBRCLM	ETBD10	ETCOMS	MEC6H5	MEK	MIBK	STYR	TIBDCP	TOLEA	TRCLE	111TCE	11008	11DCLE 12DCD4	12DCE 12DCLB
F Samp No	TRPBLK10 TRPBLK10 TRPBLK10	TRPBLKIO	TRPBLK10	TRPBLK10	TRPBLK10	TRPBLK10	TRPBLKIO	TRPBLK10	TRPBLK10	TRPBLKIO	TRPBLK10	TRPBLK10	TREBLAIO	TRPBLK10	TRPBLK10	TRPBLK10	TRPBLKIO	TRPBLK10	TRPBLK10	TRPBLK10	TRPBLK10	TRPBLK10	TRPBLK10	TRPBLK10	TRPBLK10	TRPBLK10	TRPBLKIO	TRPBLK10	TRPBLK10	TRPBLKIO	TRPBLK10				
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Test Name	12DCLE 12DCLP	13DCLB	130MB	14DCLB	ACET	BRDCLM	C13DCP	C2AVE	C2H5CL	C6H6	CD2CL2	CH2CL2	CHIBR	CHBR3	CHCL3	CLC6H5	DBRCLM	ETBD10	ETC6H5 MEC6D8	MEC6H5	MER	MNBK	TIBDCP	TCLEA	TOLEE	120CD4	CD2CL2	MEC6D8	12DCD4	ETRO10	MEC6D8	12DCD4	ETBD10	MEC6D8 12DCD4	) ) ) !
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Test Name	13DMB 14DCLB 2CLEVE	ACET	C12DCE C13DCP	CZAVE	CZHSCL	Сене	CCL4	CH2CL2	CH3BR	CHBR3	CHCL3	CECORD	DBRCLM	ETBD10	MECEDS	MEC6H5	MEK	MNBK	STYR	TIBDOP	TCLEE	97411	112TCE	11DCE	120CD4	120CE	12DCLB 12DCLB	12DCLP	12DMB 13DCLB	130CP	14DCLB	2CLEVE	BRDCLM
F Samp No	TRPBLK11 TRPBLK11 TRPBLK11	TRPBLK11 TRPBLK11	TRPBLK11 TRPBLK11	TRPBLK11	TRPBLK11	TRPBLK11	TRPBLK11 TRPRLK11	TRPBLK11	TRPBLK11	TRPBLK11	TRPBLK11	TROBLET	TRPBLK11	TRPBLK11	TRPBLK11	TRPBLK11	TRPBLKII	TRPBLK11	TRPBLK11	TRPBLK11 TRPBLK11	TRPBLK11												
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Chemical Quality Control Report Installation: Badger AAP, WI (BA) Analysis Date Range: 01-apr-92 to 01-sep-92

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OC Type							
Test Name	C12DCE C13DCP C2AVE C2H3CL C2H5CL C6H6 CCL4	CUZCLZ CH3BR CH3CL CH3CL CHBR3 CHCL3	CS2 DBRCLM ETBD10 ETC6H5 MEC6D8 MEC6H5	MIEN STYR TIJDCP TCLEA TCLEE	UNK217 12DCD4 CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2 ETBD10	120c04 CD2CL2 ETB010 MECCD8 120C04 CD2CL2 ETB010 MECCD8	12DCD4 CD2CL2 ETBD10 MEC6D8 12DCD4 CD2CL2
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## Appendix L.4

Summary of Nontarget, Library Searched Compounds Detected in RI Analytical Program

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#### Appendix L.4

#### Nontarget, Library Searched Compounds

#### Introduction

This appendix describes the procedure utilized during the BAAP RI data quality assessment for tentatively identifying and reporting nontarget compounds detected in volatile (VOC) and semivolatile (SVOC) organics methodologies. The purpose of investigating these nontarget, library searched compounds is to obtain a very general idea of the classes of compounds not identified by the USATHAMA-certified analyses.

The following protocols for identifying nontarget, library searched compounds detected during gas chromatography/mass spectrometry (GC/MS) VOC and SVOC organics methodologies are defined by USATHAMA: (1) report all peaks with either a response that is 10 percent or greater than that of the internal standard, (2) report all peaks accounting for 10 percent or more of the total ion current, or (3) report all peaks with estimated concentrations exceeding 10  $\mu g/\ell$  for water or 1  $\mu g/g$  for soil. Following USATHAMA protocol, those peaks (identified by the computerized mass spectral library matching systems of EA Laboratories, DataChem Laboratories, and Arthur D. Little) with a purity fit of greater than 95 percent were reported by the compound name. The compound name, estimated concentration, and flagging code "S" were entered into the IRDMIS. Those compounds with a purity fit of less than 95 percent were reported as UNKXXX, where XXX is 100 times the relative retention time (minutes) in relation to 1,2-dichloroethane-D4 for VOCs, and 100 times the relative retention time of phenanthrene-D10 plus 500 for SVOCs. These nontarget, library searched compounds are also flagged with "S" in the IRDMIS. Compounds that are unidentified in the IRDMIS are the primary focus of this evaluation.

#### Methodology

Nontarget, library searched compounds were reported in samples for both the VOC and SVOC fractions (Appendix K). Table L.4-1 summarizes nontarget, library searched compounds detected during the BAAP RI program. Samples were added to the table if the detection of at least one nontarget, library searched compound in either the VOC or SVOC fraction of the sample was reported. Site IDs are grouped on the basis of the RI Report format (i.e., SWMUs are grouped according to RI Report section). The total concentration

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of nontarget, library searched compounds is reported for the VOC and SVOC fractions of each sample.

A total of 57 samples was selected from Table L.4-1 to investigate the identities of nontarget, library searched compounds. The selection of the samples was based upon the following objectives:

- investigate nontarget, library searched compounds in background samples and method blanks associated with lots which containing selected samples,
- investigate nontarget, library searched compounds reported in a subset of VOC and SVOC samples,
- investigate samples with both low and high totals of nontarget, library searched compounds, in both the VOC and SVOC fractions,
- select at least one sample from each of the SWMUs represented by the Site IDs in Table L.4-1,
- select samples from various media (i.e., surface soil, sediment, subsurface soil, surface water, and groundwater), and
- select the same well from both rounds of sampling if possible (see Table L.4-1).

Because more nontarget, library searched compounds were detected in SVOC than VOC samples, a greater percentage of samples with SVOC nontarget library searched compounds was selected (Table L.4-1). Samples selected for nontarget, library searched compound tentative identification are indicated on Table L.4-1 in shaded boxes.

In order to tentatively identify the compounds, the laboratory data packages were revisited and available information was evaluated. Three labs were used during the course of the RI: EA Laboratories, DataChem Laboratories, and Arthur D. Little Laboratories. EA and A.D. Little Laboratories did not make tentative identifications, therefore a best match from the spectral search was selected (Table L.4-3). Datachem did make a tentative identification or gave the general compound class for each UNKXXX (Table L.4-3).

Several nontarget, library searched compounds were reported in laboratory method blanks, but in general concentrations were less than 5.0  $\mu$ g/g for soil and 5.0  $\mu$ g/ $\ell$  for water (Appendix L.3). The exceptions were the detection of UNK179 (30  $\mu$ g/ $\ell$ ), UNK180 (20  $\mu$ g/ $\ell$ ), and UNK181 (20  $\mu$ g/ $\ell$ ) in the VOC method blanks for groundwater chemical data lots VHP, VHR, and VHN, respectively. The best-fit match for this compound, based on mass spectrometer library file searches, is a halogenated butane. The detection of nontarget, library searched compounds with similar chemical structure and retention times

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in the VOC fraction of associated samples is assumed to be attributable to laboratory contamination (see Table L.4-2). Of the 57 samples selected from Table L.4-1 to estimate the identity of the nontarget, library searched compounds, the following samples (Round One of groundwater sampling only) are affected: S1133, SPN-91-03D, DBM-82-01, ELM-89-09, NAN-81-04C, S1126, and SWN-91-03E. The exception for the SVOC samples is the detection of UNK530 (30  $\mu g/\ell$ ) in the SVOC method blank for groundwater chemical data lot SIA. The best-fit match for this compound, based on mass spectrometer library file The detection of nontarget, library searched searches, is 2,4-dimethyl-2-pentanol. compounds with similar chemical structure and retention times in the SVOC fraction of these samples is assumed to be attributable to laboratory contamination (see Table L.4-2). Of the 57 samples selected from Table L.4-1 to estimate the identity of the nontarget, library searched compounds, only the Round One groundwater sample from PBM-82-05 is associated with this lot.

The tentative identification for the nontarget, library searched compounds detected in the remaining samples is presented in Table L.4-3. As previously explained, the reported tentative identification of compounds differ in detail as a result of the level of effort applied by each analytical laboratory.

#### Findings and Interpretation

Several nontarget, library searched compounds appear frequently in monitoring well groundwater samples. The SVOC 1-methyl-2-pyrrolidinone appears frequently and at higher concentrations than other SVOCS (Table L.4-3). The chemical formula for this compound is C<sub>5</sub>H<sub>9</sub>NO. The spatial distribution of this compound at BAAP indicates that it is not a site-related contaminant. The compound may be a monitoring well construction or sampling artifact. The Merck Index (1989) reports that 2-pyrrolidinone is used as an industrial solvent in specialty printer inks, and as a plasticizer. The compound may be present in PVC well materials used at BAAP. 2-fluorophenol is also tentatively identified in several samples. This compound is a surrogate used by the laboratory for GC calibration. In addition, this compound is tentatively identified in samples which are not spatially associated with SVOC groundwater contamination at BAAP. It should be noted that the presence of these compounds in groundwater is not always confirmed by detection in both rounds of groundwater sampling (Table L.4-1).

The concentrations of other nontarget, library searched compounds detected in groundwater samples are generally much lower in comparison to 1-methyl-2-pyrrolidinone. Other tentatively identified SVOCs which do not appear as frequently and at as high concentrations as 1-methyl-2-pyrrolidinone are kerones which may be associated with

W0039213L.APP 6853-12 1-methyl-2-pyrrolidinone. These include 2-chloro-1,3-cyclopentanedione, 1-methyl-2-piperidinone, 3,5-dimethyl-piperidinone and 1,3-cyclopentanedione (Table L.4-3).

In general, the most predominant tentatively identified SVOC in groundwater samples was 1-methyl-2-pyrrolidinone. The Round One sample from monitoring well LOM-91-02, however, appears to be contaminated with long-chain alkanes (Table L.4-3). The total nontarget, library searched SVOC concentration is 1315  $\mu g/\ell$  in Round One, but only 107  $\mu g/\ell$  in Round Two. Round Two groundwater chemical data (Appendix K.4) indicates detection of UNK554 at 100  $\mu g/\ell$  and UNK604 at 7  $\mu g/\ell$ . Based on retention times observed in Table L.4-3, UNK554 could probably be tentatively identified as 1-methyl-2-pyrrolidinone. The decrease in concentration of nontarget, library searched compounds in the Round Two LOM-91-02 sample and the lack of detection of target analytes in both Round One and Round Two indicate that groundwater in the vicinity of this well is probably not contaminated.

Very few tentatively identified VOCs appear in Table L.4-3, and all concentrations are less than 5  $\mu$ g/ $\ell$ . An examination of Table L.4-1 indicates that total nontarget, library searched compound concentrations for the VOC fraction are very low relative to the SVOC fraction.

Tentatively identified VOC and SVOC compounds in soils appear related to site-specific contamination discussed in the contamination assessments of the RI Report (see Table L.4-3):

Propellant Burning Ground

**Surface Soils** 

- -phthalates
- -hydrocarbons

Subsurface Soils

- -straight-chain hydrocarbons
- -aromatic hydrocarbons
- -nitrated benzenes
- -unsaturated oxyhydrocarbons

Deterrent Burning Ground

Subsurface Soils

- -hydrocarbons
- -nitrated benzenes
- -phthalates

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Rocket Paste Area
Surface Soils
-cyclic hydrocarbons
-phenyl alcohols

Old Fuel Oil Tank Area
Subsurface Soils
-hydrocarbons

#### L.4 REFERENCES

Budavari, S., ed., et al., 1989. The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals; 11th ed.; Merck & Co., Inc., Rahway, NJ.

| SI          | TE ID D                                                 |         | TOTAL, NONTARGET LIBRARY SEARCHED CONCENTRATIONS VOCs | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS SVOCs | UNITS |
|-------------|---------------------------------------------------------|---------|-------------------------------------------------------|-------------------------------------------------------|-------|
|             | ACK GROUND SOIL AND                                     | <u></u> |                                                       | <u> </u>                                              |       |
|             | ROUNDWATER                                              |         |                                                       |                                                       |       |
| Su          | bsurface Soil                                           |         |                                                       |                                                       |       |
| ВС          | GM-91-02                                                | 22.000  | 0.500                                                 | 1.500                                                 | ug/g  |
| ВС          | GM-91-02                                                | 42.000  | 0.000                                                 | 0.900                                                 | ug/g  |
| ВС          | GM-91-02                                                | 62.000  | 0.000                                                 | 8.600                                                 | ug/g  |
| ВС          | GM-91-03                                                | 22.000  | 0.000                                                 | 10.000                                                | ug/g  |
| ВС          | GM-91-03                                                | 42.000  | 0.000                                                 | 8.900                                                 | ug/g  |
| ВС          | GM-91-03                                                | 62.000  | 0.000                                                 | 4.600                                                 | ug/g  |
| R           | ound One Groundwater                                    |         |                                                       |                                                       |       |
| ВС          | GM-91-02                                                |         | 0.000                                                 | 22.000                                                | ug/L  |
| ВС          | GM-91-03                                                |         | 0.000                                                 | 4.400                                                 | ug/L  |
| SI          | 123                                                     |         | 0.000                                                 | 66.000                                                | ug/L  |
| <b>S</b> 1: | 129                                                     |         | 0.000                                                 | 10.000                                                | ug/L  |
| SI          | 130                                                     |         | 0.000                                                 | 15.000                                                | ug/L  |
| SI          | 131                                                     |         | 2.000                                                 | 50.000                                                | ug/L  |
| Ro          | ound Two Groundwater                                    |         |                                                       |                                                       |       |
| ВС          | GM - 91 - 02                                            |         | 0.000                                                 | 11.000                                                | ug/L  |
| ВС          | GM-91-03                                                |         | 0.000                                                 | 5.000                                                 | ug/L  |
| <b>S1</b>   | 129                                                     |         | 0.000                                                 | 1020.000                                              | ug/L  |
| <b>S1</b>   | 130                                                     |         | 4.000                                                 | 20.000                                                | ug/L  |
| <b>S1</b> : | 131                                                     |         | 3.000                                                 | 10.000                                                | ug/L  |
|             | OPELLANT BURNING GROUND/<br>TTLING PONDS AND SPOILS DIS |         |                                                       |                                                       |       |
| Su          | rface Soil                                              |         |                                                       |                                                       |       |
| PB          | S-91-01                                                 | 0.000   | 0.000                                                 | 20.400                                                | ug/g  |
| PB          | S-91-10                                                 | 0.000   | 0.000                                                 | 190.200                                               | ug/g  |
| PB          | S-91-20                                                 | 0.000   | 0.000                                                 | 9.600                                                 | ug/g  |
| PB          | S-91-30                                                 | 0.000   | 0.000                                                 | 7.500                                                 | ug/g  |
| PB          | S-91-35                                                 | 0.000   | 0.900                                                 | 0.000                                                 | nt/t  |

| SITE ID_        | DEPTH (ft) | TOTAL, NONTARGET LIBRARY SEARCHED CONCENTRATIONS VOCS | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS SVOCE | UNITS |  |
|-----------------|------------|-------------------------------------------------------|-------------------------------------------------------|-------|--|
| <br>PBS-91-40   | 0.000      | 0.000                                                 | 14.400                                                | ug/g  |  |
| PBS-91~48       | 0.000      | 0.000                                                 | 38.100                                                | ug/g  |  |
|                 | 0.000      | 0.000                                                 | 10.100                                                |       |  |
| PBS-91-55       |            |                                                       |                                                       | ug/g  |  |
| PBS-91-65       | 0.000      | 0.000                                                 | 23.300                                                | ug/g  |  |
| PBS-91-75       | 0.000      | 0.000                                                 | 46.800                                                | ng/g  |  |
| PBS-91-85       | 0.000      | 0.000                                                 | 5.200                                                 | ug/g  |  |
| PBS-91-93       | 0.000      | 0.600                                                 | 0.000                                                 | n8/8  |  |
| PBS-91-94       | 0.000      | 0.400                                                 | 0.000                                                 | ug/g  |  |
| PBS-91-95       | 0.000      | 0.600                                                 | 10.600                                                | ug/g  |  |
| PBS-91-97       | 0.000      | 0.800                                                 | 0.000                                                 | ug/g  |  |
| PBS-91~99       | 0.000      | 2.000                                                 | 0.000                                                 | ug/g  |  |
| PBS-91-105      | 0.000      | 0.000                                                 | 11.000                                                | ug/g  |  |
| PBS-91-111      | 0.000      | 0.000                                                 | 8.300                                                 | ug/g  |  |
| PBS-91-117      | 2.500      | 0.000                                                 | 240.630                                               | ug/g  |  |
| PBS-91-118      | 3.000      | 0.000                                                 | 52.200                                                | ug/g  |  |
| Subsurface Soil |            |                                                       |                                                       |       |  |
| LOB-90-01       | 10.000     | 0.000                                                 | 4.800                                                 | ug/g  |  |
| PBB-91-01       | 18.000     | 0.000                                                 | 2.200                                                 | ug/g  |  |
| PBB-91-02       | 12.000     | 744.000                                               | 0.000                                                 | ug/g  |  |
| PBB-91-03       | 91.000     | 0.000                                                 | 0.600                                                 | ug/g  |  |
| PBB-91-04       | 62.000     | 0.400                                                 | 0.000                                                 | ug/g  |  |
| PBB-91-04       | 72.000     | 2.000                                                 | 1135.900                                              | ug/g  |  |
| PBB-91-04       | 82.000     | 1.000                                                 | 0.000                                                 | ug/g  |  |
| PBB-91-05       | 26.000     | 20.900                                                | 0.000                                                 | ug/g  |  |
| PBB-91-05       | 28.000     | 0.400                                                 | 0.000                                                 | ug/g  |  |
| PBB-91-05       | 32.000     | 7.300                                                 | 0.000                                                 | ug/g  |  |
| PBB-91-05       | 51.000     | 0.400                                                 | 0.000                                                 | ug/g  |  |
| PBB-91-05       | 71.000     | 0.500                                                 | 0.800                                                 | ug/g  |  |
| PBB-91-05       | 73.000     | 2.000                                                 | 0.000                                                 | n8/8  |  |

| SITE ID               | DEPTH (ft) | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS VOCs | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS SVOC | UNITS |  |
|-----------------------|------------|------------------------------------------------------|------------------------------------------------------|-------|--|
| PBB-91-06             | 12.000     | 858.600                                              | 8530.000                                             | ug/g  |  |
| PBB-91-06             | 14.000     | 23.730                                               | 0.000                                                | ug/g  |  |
| PBB-91-06             | 16.000     | 160.400                                              | 0.000                                                | ug/g  |  |
| PBB-91-06             | 20.000     | 44.400                                               | 0.000                                                | ug/g  |  |
| PBB-91-06             | 22.000     | 403.000                                              | 0.000                                                | ug/g  |  |
| PBB-91-06             | 26.000     | 40.700                                               | 0.000                                                | ug/g  |  |
| PBB-91-06             | 31.000     | 24.560                                               | 0.000                                                | ug/g  |  |
| PBB-91-06             | 41.000     | 80.540                                               | 0.000                                                | ug/g  |  |
| PBB-91-06             | 51.000     | 11.960                                               | 0.000                                                | ug/g  |  |
| PBB-91-06             | 61.000     | 82.640                                               | 0.000                                                | ug/g  |  |
| PBB-91-06             | 71.000     | 64.270                                               | 0.000                                                | ug/g  |  |
| PBB-91-06             | 91.000     | 0.000                                                | 0.500                                                | ug/g  |  |
| PBB-91-06             | 111.000    | 0.000                                                | 1.100                                                | ug/g  |  |
| PBB-91-07             | 12.000     | 0.000                                                | 0.400                                                | ug/g  |  |
| SPB-91-01             | 2.000      | 0.000                                                | 15.600                                               | ug/g  |  |
| SPB-91-01             | 7.000      | 0.000                                                | 5.900                                                | ug/g  |  |
| SPB-91-01             | 22.000     | 0.000                                                | 0.600                                                | ug/g  |  |
| SPB-91-01             | 67.000     | 0.000                                                | 1.800                                                | ug/g  |  |
| Round One Groundwater |            |                                                      |                                                      |       |  |
| LOM-91-01             |            | 6.000                                                | 4.400                                                | ug/L  |  |
| LOM-91-02             |            | 20.000                                               | 1315.000                                             | ug/L  |  |
| LOM-89-01             |            | 0.000                                                | 13.000                                               | ug/L  |  |
| LON-89-02A            |            | 0.000                                                | 45.000                                               | ug/L  |  |
| LON-89-02B            |            | 0.000                                                | 55.000                                               | ug/L  |  |
| LON-89-03A            |            | 0.000                                                | 4.400                                                | ug/L  |  |
| LON-89-03B            |            | 0.000                                                | 50.000                                               | ug/L  |  |
| PBM-89-06             |            | 7.000                                                | 0.000                                                | ug/L  |  |
| PBM-85-01             |            | 2.000                                                | 0.000                                                | ug/L  |  |
| PBM-85-03             |            | 0.000                                                | 11.000                                               | ug/L  |  |
|                       |            |                                                      |                                                      |       |  |

| DADOERAM      |                    |                                                       |                                                                |       |  |
|---------------|--------------------|-------------------------------------------------------|----------------------------------------------------------------|-------|--|
| SITE ID       | DEPTH (ft)         | TOTAL, NONTARGET LIBRARY SEARCHED CONCENTRATIONS VOCs | TOTAL NONTARGET<br>LIBRARY SEARCHED<br>CONCENTRATIONS<br>SVOCE | UNITS |  |
| <br>PBM-82-02 | <i>DLI</i> 111(11) | 0.000                                                 | 7.000                                                          | ug/L  |  |
| PBM-82-04     |                    | 0.000                                                 | 22.000                                                         | ug/L  |  |
| PBM-82-05     |                    | 0.000                                                 | 50.000                                                         | ug/L  |  |
| PBN-91-06C    |                    | 0.000                                                 | 100.000                                                        | ug/L  |  |
| PBN-91-06D    |                    | 0.000                                                 | 99.000                                                         | ug/L  |  |
| PBN-91-12C    |                    | 0.000                                                 | 77.000                                                         | ug/L  |  |
| PBN-91-12D    |                    | 0.000                                                 | 510.000                                                        | ug/L  |  |
| PBN-89-10B    |                    | 0.000                                                 | 20.000                                                         | ug/L  |  |
| PBN-89-10C    |                    | 0.000                                                 | 996.000                                                        | ug/L  |  |
| PBN-89-12B    |                    | 20.000                                                | 0.000                                                          | ug/L  |  |
| PBN-82-02C    |                    | 0.000                                                 | 5.500                                                          | ug/L  |  |
| PBN-82-03A    |                    | 0.000                                                 | 33.000                                                         | ug/L  |  |
| PBN-82-03B    |                    | 0.000                                                 | 40.000                                                         | ug/L  |  |
| PBN-82-03C    |                    | 0.000                                                 | 22.000                                                         | ug/L  |  |
| PBN-82-04B    |                    | 0.000                                                 | 8.800                                                          | ug/L  |  |
| PBN-82-04C    |                    | 0.000                                                 | 6.000                                                          | ug/L  |  |
| PBN-82-05A    |                    | 0.000                                                 | 10.800                                                         | ug/L  |  |
| PBN-82-05B    |                    | 0.000                                                 | 60.000                                                         | ug/L  |  |
| S1102         |                    | 20.000                                                | 0.000                                                          | ug/L  |  |
| S1103         |                    | 0.000                                                 | 33.000                                                         | ug/L  |  |
| S1104         |                    | 0.000                                                 | 6.000                                                          | ug/L  |  |
| S1106         |                    | 0.000                                                 | 10.000                                                         | ug/L  |  |
| S1108         |                    | 0.000                                                 | 5.500                                                          | ug/L  |  |
| S1117         |                    | 2.000                                                 | 5.500                                                          | ug/L  |  |
| S1133         |                    | 60.000                                                | 22.000                                                         | ug/L  |  |
| S1147         |                    | 4.100                                                 | 363.000                                                        | ug/L  |  |
| S1148         |                    | 20.000                                                | 0.000                                                          | ug/L  |  |
| S1152A        |                    | 20.000                                                | 0.000                                                          | ug/L  |  |
| S1152B        |                    | 30.000                                                | 0.000                                                          | ug/L  |  |
|               |                    |                                                       |                                                                |       |  |

|                       |            | TOTAL, NONTARGET LIBRARY SEARCHED CONCENTRATIONS | TOTAL, NONTARGET LIBRARY SEARCHED CONCENTRATIONS |       |
|-----------------------|------------|--------------------------------------------------|--------------------------------------------------|-------|
| <br>SITE ID           | DEPTH (ft) | VOCs                                             | SVOC:                                            | UNITS |
| SPN-91-02D            |            | 0.000                                            | 984.000                                          | ug/L  |
| SPN-91-CBD            |            | 40.000                                           | 272.000                                          | ug/L  |
| SPN-91-04D            |            | 20.000                                           | 755.000                                          | ug/L  |
| SPN-89-01C            |            | 40.000                                           | 9.000                                            | ug/L  |
| SPN-89-02A            |            | 2.000                                            | 4.400                                            | ug/L  |
| SPN-89-02B            |            | 0.000                                            | 110.000                                          | ug/L  |
| SPN-89-@C             |            | 0.000                                            | 117.700                                          | ug/L  |
| SPN-89-03C            |            | 2.000                                            | 22.000                                           | ug/L. |
| SPN-89-04B            |            | 2.100                                            | 27.500                                           | ug/L  |
| SPN-89-04C            |            | 10.000                                           | 17.600                                           | ug/L  |
| SPN-89-05A            |            | 2.000                                            | 60.000                                           | ug/L. |
| SPN-89-05B            |            | 2.000                                            | 30.000                                           | ug/L  |
| Round Two Groundwater |            |                                                  |                                                  |       |
| LOM-91-01             |            | 0.000                                            | 200.000                                          | ug/L  |
| LOM-91-02             |            | 0.000                                            | 107.000                                          | ug/L. |
| LOM-89-01             |            | 0.000                                            | 60.000                                           | ug/L. |
| LON-89-02A            |            | 0.000                                            | 7.000                                            | ug/L  |
| LON-89-02B            |            | 0.000                                            | 300.000                                          | ug/L. |
| LON-89-03A            |            | 0.000                                            | 11.000                                           | ug/L  |
| LON-89-03B            |            | 3.000                                            | 30.000                                           | ug/L  |
| PBM-85-01             |            | 3.000                                            | 0.000                                            | ug/L  |
| PBM-85-02             |            | 12.000                                           | 0.000                                            | ug/L  |
| PBM-85-05             |            | 6.000                                            | 0.000                                            | ug/L  |
| PBM-82-03             |            | 0.000                                            | 8.000                                            | ug/L  |
| PBN-91-06C            |            | 0.000                                            | 4.000                                            | ug/L  |
| PBN-91-06D            |            | 0.000                                            | 42.900                                           | ug/L  |
| PBN-91-12C            |            | 3.000                                            | 85.000                                           | ug/L  |
| PBN-91-12D            |            | 0.000                                            | 33.000                                           | ug/L  |
| PBN-89-01B            |            | 3.000                                            | 0.000                                            | ug/L  |

| SITE ID    | DEPTH (ft) | TOTAL, NONTARGET LIBRARY SEARCHED CONCENTRATIONSVOCs | TOTAL, NONTARGET LIBRARY SEARCHED CONCENTRATIONS SVOCs | UNITS |
|------------|------------|------------------------------------------------------|--------------------------------------------------------|-------|
| PBN-89-02B |            | 6.000                                                | 0.000                                                  | ug/L. |
| PBN-89-03C |            | 3.000                                                | 0.000                                                  | ug/L  |
| PBN-89-04C |            | 2.000                                                | 0.000                                                  | ug/L  |
| PBN-89-10C |            | 0.000                                                | 20.000                                                 | ug/L  |
| PBN-89-10D |            | 3.000                                                | 0.000                                                  | ug/L  |
| PBN-89-12B |            | 5.000                                                | 0.000                                                  | ug/L  |
| PBN-85-02A |            | 2.000                                                | 0.000                                                  | ug/L  |
| PBN-85-03A |            | 5.000                                                | 0.000                                                  | ug/L  |
| PBN-82-02A |            | 0.000                                                | 33.000                                                 | ug/L  |
| PBN-82-02B |            | 0.000                                                | 22.000                                                 | ug/L  |
| PBN-82-02C |            | 0.000                                                | 10.000                                                 | ug/L  |
| PBN-82-03B |            | 0.000                                                | 5.500                                                  | ug/L  |
| PBN-82-03C |            | 0.000                                                | 7.700                                                  | ug/L. |
| PBN-82-04B |            | 0.000                                                | 10.000                                                 | ug/L  |
| PBN-82-05B |            | 0.000                                                | 10.000                                                 | ug/L  |
| PBN-82-05C |            | 0.000                                                | 16.000                                                 | ug/L  |
| S1101      |            | 2.000                                                | 0.000                                                  | ug/L  |
| S1103      |            | 0.000                                                | 30.000                                                 | ug/L  |
| S1105      |            | 0.000                                                | 80.000                                                 | ug/L  |
| S1107      |            | 0.000                                                | 8.000                                                  | ug/L  |
| S1108      |            | 0.000                                                | 4.400                                                  | ug/L  |
| S1117      |            | 0.000                                                | 9.900                                                  | ug/L  |
| S1133      |            | 0.000                                                | 8.800                                                  | ug/L  |
| S1147      |            | 0.000                                                | 19.800                                                 | ug/L  |
| S1148      |            | 0.000                                                | 4.000                                                  | ug/L  |
| S1152A     |            | 3.000                                                | 20.000                                                 | ug/L  |
| SPN-91-QD  |            | 2.000                                                | 10.000                                                 | ug/L  |
| SPN-91-04D |            | 5.000                                                | 0.000                                                  | ug/L  |
| SPN-89-01C |            | 4.000                                                | 0.000                                                  | ug/L  |

| SITE ID I                 | LIBR            | AL, NONTARGET<br>ARY SEARCHED<br>ICENTRATIONS<br>VOCS | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS SVOCs | UNITS |
|---------------------------|-----------------|-------------------------------------------------------|-------------------------------------------------------|-------|
| SPN-89-02A                |                 | 2.000                                                 | 0.000                                                 | ug/L  |
| SPN-89-02C                |                 | 0.000                                                 | 5.500                                                 | ug/L  |
| SPN-89-OB                 |                 | 0.000                                                 | 4.000                                                 | ug/L  |
| SPN-89-04C                |                 | 0.000                                                 | 16.000                                                | ug/L  |
| DETERRENT BURNING GROUND/ | EXISTING LANDFI | LL                                                    |                                                       |       |
| Subsurface Soil           |                 |                                                       |                                                       |       |
| DBB-91-01                 | 2.000           | 0.000                                                 | 13.500                                                | ug/g  |
| DBB-91-01                 | 4.000           | 0.000                                                 | 305.000                                               | ug/g  |
| DBB-91-01                 | 6.000           | 0.000                                                 | 423.000                                               | ug/g  |
| DBB-91-01                 | 8.000           | 0.000                                                 | 368.000                                               | ug/g  |
| DBB-91-01                 | 10.000          | 0.000                                                 | 462.000                                               | ug/g  |
| DBB-91-01                 | 15.000          | 1.600                                                 | 466.000                                               | ug/g  |
| DBB-91-01                 | 20.000          | 0.000                                                 | 471.000                                               | ug/g  |
| DBB-91-01                 | 25.000          | 0.000                                                 | 2663.000                                              | ug/g  |
| DBB-91-01                 | 112.000         | 0.000                                                 | 1.000                                                 | ug/g  |
| DBB-91-02                 | 4.000           | 0.000                                                 | 924.800                                               | ug/g  |
| DBB-91-02                 | 8.000           | 0.000                                                 | 10.500                                                | ug/g  |
| DBB-91-02                 | 92.000          | 0.000                                                 | 0.612                                                 | ug/g  |
| DBB-91-02                 | 122.000         | 0.000                                                 | 0.518                                                 | ug/g  |
| DBB-91-03                 | 4.000           | 0.000                                                 | 30.600                                                | ug/g  |
| DBB-91-03                 | 8.000           | 0.000                                                 | 85.200                                                | ug/g  |
| DBB-91-03                 | 12.000          | 0.000                                                 | 183.500                                               | ug/g  |
| DBB-91-03                 | 14.000          | 0.000                                                 | 373.200                                               | ug/g  |
| DBB-91-03                 | 16.000          | 0.000                                                 | 187.760                                               | ug/g  |
| DBB-91-03                 | 18.000          | 0.000                                                 | 9.200                                                 | ug/g  |
| DBB-91-03                 | 20.000          | 0.000                                                 | 1.000                                                 | ug/g  |
| DBB-91-03                 | 22.000          | 0.000                                                 | 15.800                                                | ug/g  |
| DBB-91-03                 | 27.000          | 0.000                                                 | 1.300                                                 | ug/g  |
| DBB-91-03                 | 42.000          | 0.000                                                 | 3.100                                                 | ug/g  |
|                           |                 |                                                       |                                                       |       |

| SITE ID               | DEPTH (ft) | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS VOCS | TOTAL, NONTARGET LIBRARY SEARCHED CONCENTRATIONS SVOCS | UNITS |
|-----------------------|------------|------------------------------------------------------|--------------------------------------------------------|-------|
| <br>SITE ID           |            |                                                      | · · · · · · · · · · · · · · · · · · ·                  |       |
| DBB-91-03             | 62.000     | 0.000                                                | 2.000                                                  | ug/g  |
| DBB-91-03             | 82.000     | 0.000                                                | 1.300                                                  | ug/g  |
| DBB-91-03             | 102.000    | 0.000                                                | 1.400                                                  | ug/g  |
| DBB-91-03             | 122.000    | 0.000                                                | 2.600                                                  | ug/g  |
| Round One Groundwater |            |                                                      |                                                        |       |
| DBM-89-03             |            | 0.000                                                | 10.000                                                 | ug/L  |
| DBM-82-01             |            | 30.000                                               | 0.000                                                  | /L    |
| DBM-82-02             |            | 0.000                                                | 20.000                                                 | ug/L  |
| DBN-89-02A            |            | 20.000                                               | 0.000                                                  | ug/L  |
| DBN-89-02B            |            | 20.000                                               | 107.000                                                | ug/L  |
| DBN-89-04B            |            | 0.000                                                | 1078.000                                               | ug/L  |
| DBN-82-01B            |            | 0.000                                                | 20.000                                                 | ug/L  |
| DBN-82-01C            |            | 0.000                                                | 50.000                                                 | ug/L  |
| ELM-91-10             |            | 0.000                                                | 9.900                                                  | ug/L  |
| ELM-89-01             |            | 0.000                                                | 210.000                                                | ug/L  |
| ELM-89-03             |            | 0.000                                                | 30.000                                                 | ug/L  |
| ELM-89-07             |            | 0.000                                                | 9.000                                                  | ug/L  |
| ELM-89-09             |            | 30.000                                               | 7.000                                                  | ug/L  |
| ELN-91-07A            |            | 0.000                                                | 30.000                                                 | ug/L  |
| ELN-91-07B            |            | 0.000                                                | 930.000                                                | ug/L  |
| ELN-89-02B            |            | 0.000                                                | 42.000                                                 | ug/L  |
| ELN-89-04A            |            | 0.000                                                | 20.000                                                 | ug/L  |
| ELN-89-04B            |            | 0.000                                                | 264.000                                                | ug/L  |
| ELN-89-06B            |            | 8.000                                                | 30.000                                                 | ug/L  |
| ELN-82-01A            |            | 0.000                                                | 11.000                                                 | ug/L  |
| ELN-82-01B            |            | 0.000                                                | 110.000                                                | ug/L  |
| ELN-82-01C            |            | 0.000                                                | 40.000                                                 | nā/ŗ  |
| ELN-82-02A            |            | 0.000                                                | 77.000                                                 | ug/L  |
| ELN-82-02B            |            | 0.000                                                | 100.000                                                | ug/L  |
|                       |            |                                                      |                                                        |       |

| SITE ID                                    | DEPTH (ft)   | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS VOCs | TOTAL, NONTARGET<br>LIBRARY SEARCHED<br>CONCENTRATIONS<br>SVOCE | UNITS |
|--------------------------------------------|--------------|------------------------------------------------------|-----------------------------------------------------------------|-------|
| ELN-82-02C                                 |              | 0.000                                                | 114.000                                                         | ug/L  |
| ELN-82-03B                                 |              | 0.000                                                | 30.000                                                          | ug/L  |
| ELN-82-04A                                 |              | 5.000                                                | 40.000                                                          | ug/L  |
| ELN-82-04B                                 |              | 0.000                                                | 20.000                                                          | ug/L  |
| ELN-82-04C                                 |              | 0.000                                                | 33.000                                                          | ug/L  |
| S1134                                      |              | 0.000                                                | 108.000                                                         | ug/L  |
| S1153                                      |              | 0.000                                                | 30.000                                                          | ug/L  |
| NITROGLYCERINE POND/ ROCK<br>NEW ACID AREA | ET PASTE ARE | :A/                                                  |                                                                 |       |
| Round Two Groundwater                      |              |                                                      |                                                                 |       |
| DBM-89-05                                  |              | 0.000                                                | 5.000                                                           | ug/L  |
| DBM-82-01                                  |              | 0.000                                                | 25.000                                                          | ug/L  |
| DBM-82-02                                  |              | 0.000                                                | 20.000                                                          | ug/L  |
| DBN-89-02B                                 |              | 8.000                                                | 6.000                                                           | ug/L  |
| DBN-89-04B                                 |              | 0.000                                                | 80.000                                                          | ug/L  |
| DBN-82-01B                                 |              | 0.000                                                | 82.000                                                          | ug/L  |
| DBN-82-01C                                 |              | 0.000                                                | 6.000                                                           | ug/L  |
| ELM-89-03                                  |              | 0.000                                                | 10.000                                                          | ug/L  |
| ELM-89-05                                  |              | 0.000                                                | 6.000                                                           | ug/L  |
| ELM-89-07                                  |              | 5.000                                                | 0.000                                                           | ug/L  |
| ELM-89-08                                  |              | 6.000                                                | 0.000                                                           | ug/L  |
| ELM-89-09                                  |              | 0.000                                                | 10.000                                                          | ug/L  |
| ELN-91-07A                                 |              | 0.000                                                | 20.000                                                          | ug/L  |
| ELN-89-02A                                 |              | 3.000                                                | 20.000                                                          | ug/L  |
| ELN-89-04A                                 |              | 0.000                                                | 11.000                                                          | ug/L  |
| ELN-89-04B                                 |              | 3.000                                                | 55.000                                                          | ug/L  |
| ELN-82-01A                                 |              | 0.000                                                | 4.000                                                           | ug/L  |
| ELN-82-01B                                 |              | 0.000                                                | 4500.100                                                        | ug/L  |
| ELN-82-01C                                 |              | 0.000                                                | 30.000                                                          | ug/L  |
| ELN-82-02A                                 |              | 0.000                                                | 20.000                                                          | ug/L  |

|             | DIDOLKIN                  |            |                                                        |                                                       |       |   |
|-------------|---------------------------|------------|--------------------------------------------------------|-------------------------------------------------------|-------|---|
|             | CITTLE                    | DEMINION   | TOTAL, NONTARGET<br>LIBRARY SEARCHED<br>CONCENTRATIONS | TOTAL NONTARGET<br>LIBRARY SEARCHED<br>CONCENTRATIONS | Inure |   |
| <del></del> | SITE ID                   | DEPTH (ft) | VOCs                                                   | SVOCs                                                 | UNITS |   |
|             | ELN-82-02B                |            | 0.000                                                  | 7.000                                                 | ug/L  |   |
|             | ELN-82-02C                |            | 0.000                                                  | 60.000                                                | ug/L  |   |
|             | ELN-82-03A                |            | 0.000                                                  | 13.000                                                | ug/L  |   |
|             | ELN-82-03B                |            | 0.000                                                  | 6.000                                                 | ug/L  |   |
|             | ELN-82-03C                |            | 0.000                                                  | 6.000                                                 | ug/L  |   |
|             | ELN-82-04B                |            | 0.000                                                  | 10.000                                                | ug/L  |   |
|             | ELN-82-04C                |            | 0.000                                                  | 30.000                                                | ug/L  |   |
|             | S1122                     |            | 0.000                                                  | 8.800                                                 | ug/L  |   |
|             | S1134                     |            | 0.000                                                  | 38.500                                                | ug/L  |   |
|             | S1153                     |            | 0.000                                                  | 20.000                                                | ug/L  |   |
|             | Surface Soil and Sediment |            |                                                        |                                                       |       |   |
|             | RPS-91-01                 | 0.000      | 0.000                                                  | 67.300                                                | ug/g  |   |
|             | RPS-91-02                 | 0.000      | 0.000                                                  | 90.500                                                | ug/g  |   |
|             | RPS-91-03                 | 0.000      | 0.000                                                  | 21.800                                                | ug/g  |   |
|             | RPS-91-04                 | 0.000      | 0.000                                                  | 7.100                                                 | ug/g  |   |
|             | RPS-91-05                 | 0.000      | 0.000                                                  | 7.800                                                 | ug/g  |   |
|             | RPS-91-06                 | 0.000      | 0.000                                                  | 36.100                                                | ug/g  |   |
|             | RPS-91-07                 | 0.000      | 0.000                                                  | 12.000                                                | ug/g  |   |
|             | RPS-91-08                 | 0.000      | 0.000                                                  | 8.500                                                 | ug/g  |   |
|             | RPS-91-09                 | 0.000      | 0.000                                                  | 10.900                                                | ug/g  |   |
|             | RPS-91-10                 | 0.000      | 0.000                                                  | 7.800                                                 | ug/g  |   |
|             | RPS-91-11                 | 0.000      | 0.000                                                  | 84.200                                                | ug/g  |   |
|             | RPS-91-12                 | 0.000      | 0.000                                                  | 11.100                                                | ug/g  |   |
|             | RPS-91-13                 | 0.000      | 0.000                                                  | 110.400                                               | ug/g  |   |
|             | RPS-91-14                 | 0.000      | 0.000                                                  | 114.900                                               | ug/g  |   |
|             | RPS-91-15                 | 0.000      | 0.000                                                  | 17.500                                                | ug/g  |   |
|             | RPS-91-16                 | 0.000      | 0.000                                                  | 7.600                                                 | ug/g  |   |
|             | RPS-91-17                 | 0.000      | 0.000                                                  | 44.700                                                | ug/g  | _ |
|             | RPS-91-18                 | 0.000      | 0.000                                                  | 100.600                                               | ug/g  |   |
|             |                           | •          |                                                        |                                                       |       |   |

|   | SITE ID                | DEPTH (ft) | TOTAL, NONTARGET<br>LIBRARY SEARCHED<br>CONCENTRATIONS<br>VOCs | TOTAL, NONTARGET LIBRARY SEARCHED CONCENTRATIONS SVOCS | UNITS        |
|---|------------------------|------------|----------------------------------------------------------------|--------------------------------------------------------|--------------|
|   | RPS-91-19              | 0.000      | 0.000                                                          | 17.400                                                 | ug/g         |
|   | RPS-91-20              | 0.000      | 0.000                                                          | 36.300                                                 | ug/g         |
|   | RPS-91-21              | 0.000      | 0.000                                                          | 38.000                                                 | ug/g         |
|   |                        | 0.000      | 0.000                                                          | 4.500                                                  |              |
|   | RPS-91-22<br>RPS-91-23 | 0.000      | 0.000                                                          | 72.900                                                 | ug/g<br>ug/g |
|   |                        | 0.000      | 0.000                                                          | 77.800                                                 |              |
|   | RPS-91-24              |            |                                                                |                                                        | ug/g         |
|   | RPS-91-25              | 0.000      | 0.000                                                          | 34.300                                                 | ug/g         |
|   | RPS-91-26              | 0.000      | 0.000                                                          | 17.700                                                 | ug/g         |
|   | RPS-91-27              | 0.000      | 0.000                                                          | 15.000                                                 | ug/g         |
|   | RPS-91-28              | 0.000      | 0.000                                                          | 2.900                                                  | ug/g         |
|   | RPS-91-29              | 0.000      | 0.000                                                          | 33.300                                                 | ug/g         |
|   | RPS-91-30              | 0.000      | 0.000                                                          | 25.700                                                 | ug/g         |
|   | RPS-91-31              | 0.000      | 0.000                                                          | 6.060                                                  | ug/g         |
|   | RPS-91-32              | 0.000      | 0.000                                                          | 56.800                                                 | ug/g         |
|   | RPS-91-33              | 0.000      | 0.000                                                          | 2.700                                                  | ug/g         |
|   | RPS-91-34              | 0.000      | 0.000                                                          | 201.900                                                | ug/g         |
|   | RPS-91-35              | 0.000      | 0.000                                                          | 5.000                                                  | ug/g         |
|   | RPS-91-36              | 0.000      | 0.000                                                          | 13.100                                                 | ug/g         |
|   | RPS-91-37              | 0.000      | 0.000                                                          | 8.300                                                  | ug/g         |
|   | RPS-91-38              | 0.000      | 0.000                                                          | 607.900                                                | ug/g         |
|   | RPS-91-39              | 0.000      | 0.000                                                          | 392.300                                                | ug/g         |
|   | RPS-91-40              | 0.000      | 0.000                                                          | 919.600                                                | ug/g         |
|   | RPS-91-41              | 0.000      | 0.000                                                          | 47.570                                                 | ug/g         |
|   | RPS-91-42              | 0.000      | 0.000                                                          | 20.500                                                 | ug/g         |
|   | RPS-91-43              | 0.000      | 0.000                                                          | 29.000                                                 | ug/g         |
|   | RPS-91-44              | 0.000      | 0.000                                                          | 25.000                                                 | ug/g         |
|   | RPS-91-45              | 0.000      | 0.000                                                          | 23.600                                                 | ug/g         |
| _ | RPS-91-46              | 0.000      | 0.000                                                          | 3.800                                                  | ug/g         |
|   | RPS-91-47              | 0.000      | 0.000                                                          | 88.100                                                 | n6/k         |
|   | ,., . , . ,,           | 5.555      |                                                                |                                                        |              |

|                       |            |                                                 |                                                  | `     |
|-----------------------|------------|-------------------------------------------------|--------------------------------------------------|-------|
| ·                     |            | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS | TOTAL, NONTARGET LIBRARY SEARCHED CONCENTRATIONS |       |
| SITE ID               | DEPTH (ft) | VOCs                                            | SVOCs                                            | UNITS |
| RPS-91-48             | 0.000      | 0.000                                           | 143.900                                          | ug/g  |
| RPS-91-49             | 0.000      | 0.000                                           | 212.500                                          | ug/g  |
| RPS-91-50             | 0.000      | 0.000                                           | 373.300                                          | ug/g  |
| RPS-91-51             | 0.000      | 0.000                                           | 256,300                                          | ug/g  |
| RPS-91-52             | 0.000      | 0.000                                           | 11.900                                           | ug/g  |
| RPS-91-53             | 0.000      | 0.000                                           | 23.400                                           | ug/g  |
| RPS-91-54             | 0.000      | 0.000                                           | 62.500                                           | ug/g  |
| RPS-91-55             | 0.000      | 0.000                                           | 28.800                                           | ug/g  |
| RPS-91-56             | 0.000      | 0.000                                           | 60.200                                           | ug/g  |
| RPS-91-57             | 0.000      | 0.000                                           | 22.700                                           | ug/g  |
| RPS-91-58             | 0.000      | 0.000                                           | 15.300                                           | ug/g  |
| RPS-91-59             | 0.000      | 0.000                                           | 52.800                                           | ug/g  |
| RPS-91-60             | 0.000      | 0.000                                           | 22.300                                           | ug/g  |
| RPS-91-61             | . 0.000    | 0.000                                           | 21.200                                           | ug/g  |
| RPS-91-62             | 0.000      | 0.000                                           | 5.000                                            | ug/g  |
| RPS-91-63             | 0.000      | 0.000                                           | 14.800                                           | ug/g  |
| RPS-91-64             | 0.000      | 0.000                                           | 69.500                                           | ug/g  |
| RPS-91-65             | 0.000      | 0.000                                           | 41.600                                           | ug/g  |
| RPS-91-66             | 0.000      | 0.000                                           | 5.900                                            | ug/g  |
| RPS-91-67             | 0.000      | 0.000                                           | 116.100                                          | ug/g  |
| RPS-91-68             | 0.000      | 0.000                                           | 10.800                                           | ug/g  |
| Surface Water         |            |                                                 |                                                  |       |
| RPW-91-02             | 0.000      | 0.000                                           | 9.500                                            | ug/L  |
| Round One Groundwater |            |                                                 |                                                  |       |
| NAN-81-01A            |            | 20.000                                          | 0.000                                            | ug/L  |
| NAN-81-02B            |            | 20.000                                          | 0.000                                            | ug/L  |
| NAN-81-03B            |            | 30.000                                          | 0.000                                            | ug/L  |
| NAN-81-03C            |            | 20.000                                          | 0.000                                            | ug/L  |
| NAN-81-04C            |            | 20.000                                          | 0.000                                            | ug/L  |

| D.I.D.                                  |                  |                                                               |                                                       |       |
|-----------------------------------------|------------------|---------------------------------------------------------------|-------------------------------------------------------|-------|
| SITE ID                                 | DEPTH (ft)       | TOTAL NONTARGET<br>LIBRARY SEARCHED<br>CONCENTRATIONS<br>VOCs | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS SVOCS | UNITS |
| RPM-91-01                               |                  | 0.000                                                         | 5.500                                                 | ug/L  |
| RPM-89-01                               |                  | 20.000                                                        | 30.000                                                | ug/L  |
| S1119                                   |                  | 30.000                                                        | 0.000                                                 | ug/L  |
| S1125                                   |                  | 40.000                                                        | 0.000                                                 | ug/L  |
| Round Two Groundwater                   |                  |                                                               |                                                       |       |
| NAN-81-04B                              |                  | 2.000                                                         | 0.000                                                 | ug/L  |
| NAN-81-04C                              |                  | 5.000                                                         | 0.000                                                 | ug/L  |
| RPM-89-01                               |                  | 0.000                                                         | 6.000                                                 | ug/L  |
| RPM-89-02                               |                  | 0.000                                                         | 100.000                                               | ug/L  |
| S1121                                   |                  | 2.000                                                         | 0.000                                                 | ug/L  |
| OLEUM PLANT/ OLEUM P<br>BALLISTICS POND | LANT POND/       |                                                               |                                                       |       |
| Sediments                               |                  |                                                               |                                                       |       |
| BPS-91-01                               | 0.000            | 0.800                                                         | 1.900                                                 | ug/g  |
| BPS-91-02                               | 0.000            | 0.500                                                         | 0.500                                                 | ug/g  |
| BPS-91-03                               | 0.000            | 0.700                                                         | 1.000                                                 | ug/g  |
| BPS-91-04                               | 0.000            | 0.900                                                         | 13.500                                                | ug/g  |
| OLD ACID AREA/ OLD FU                   | EL OIL TANK AREA |                                                               |                                                       |       |
| Subsurface Soil                         |                  |                                                               |                                                       |       |
| FTB-91-01                               | 2.000            | 0.000                                                         | 112.300                                               | ug/g  |
| FTB-91-01                               | 7.000            | 6.600                                                         | 7.500                                                 | ug/g  |
| FTB-91-02                               | 2.000            | 0.000                                                         | 1.300                                                 | ug/g  |
| FTB-91-02                               | 11.000           | 0.000                                                         | 0.300                                                 | ug/g  |
| Round One Groundwater                   |                  |                                                               |                                                       |       |
| FTM-89-01                               |                  | 20.000                                                        | 0.000                                                 | ug/L  |
| OAM-91-01                               |                  | 20.000                                                        | 0.000                                                 | ug/L  |
| OAM-89-01                               |                  | 20.000                                                        | 0.000                                                 | ug/L  |
| OAM-89-02                               |                  | 20.000                                                        | 0.000                                                 | ug/L  |
| \$1126                                  |                  | 20.000                                                        | 0.000                                                 | ug/L  |

| SITE ID                   | DEPTH (ft)   | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS VOCs | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS SVOC | UNITS  |             |
|---------------------------|--------------|------------------------------------------------------|------------------------------------------------------|--------|-------------|
| <br>Round Two Groundwater | DEI III (II) | 700                                                  | 3.00                                                 | 014115 | <del></del> |
| S1126                     |              | 4.000                                                | 0.000                                                | ug/L   |             |
| OFF-POST AREA SOUTH OF BA | AP           |                                                      |                                                      | -9-    |             |
| Round One Groundwater     |              |                                                      |                                                      |        |             |
| PBN-91-01C                |              | 0.000                                                | 320.000                                              | ug/L   |             |
| PBN-91-02C                |              | 0.000                                                | 105.000                                              | ug/L   |             |
| PBN-91-03B                |              | 0.000                                                | 11.000                                               | ug/L   |             |
| PBN-91-03C                |              | 0.000                                                | 70.000                                               | ug/L   |             |
| PBM-90-01D                |              | 0.000                                                | 100.000                                              | ug/L   |             |
| PBM-90-02D                |              | 0.000                                                | 457.000                                              | ug/L   |             |
| PBM-90-03D                |              | 0.000                                                | 12.000                                               | ug/L   |             |
| PBN-90-04B                |              | 0.000                                                | 220.000                                              | ug/L   |             |
| PBN-90-04D                |              | 0.000                                                | 115.000                                              | ug/L   |             |
| SWN-91-01B                |              | 0.000                                                | 230.000                                              | ug/L   |             |
| SWN-91-01C                |              | 0.000                                                | 440.000                                              | ug/L   |             |
| SWN-91-01D                |              | 0.000                                                | 30.000                                               | ug/L   |             |
| SWN-91-02C                |              | 0.000                                                | 350.000                                              | ug/L   |             |
| SWN-91-02D                |              | 0.000                                                | 224.000                                              | ug/L   |             |
| SWN-91-03B                |              | 10.000                                               | 0.000                                                | ug/L   |             |
| SWN-91-03C                |              | 0.000                                                | 9.000                                                | ug/L   |             |
| SWN-91-03D                |              | 10.000                                               | 585.000                                              | ug/L   |             |
| SWN-91-03E                |              | 20.000                                               | 264.000                                              | ug/L   |             |
| SWN-91-04C                |              | 0.000                                                | 120.000                                              | ug/L   |             |
| SWN-91-04D                |              | 0.000                                                | 227.000                                              | ug/L   |             |
| SWN-91-05B                |              | 0.000                                                | 9.000                                                | ug/L   |             |
| SWN-91-05C                |              | 0.000                                                | 9.000 ·                                              | ug/L   |             |
| SWN-91-05D                |              | 0.000                                                | 40.000                                               | ug/L   |             |
| Round Two Groundwater     |              |                                                      |                                                      |        |             |
| PBN-91-01C                |              | 0.000                                                | 8.000                                                | ug/L   |             |
|                           |              |                                                      |                                                      |        |             |

|             | SITE ID    | DEBTU (6)  | TOTAL NONTARGET LIBRARY SEARCHED CONCENTRATIONS VOCs | TOTAL, NONTARGET LIBRARY SEARCHED CONCENTRATIONS SVOCS | UNITS |
|-------------|------------|------------|------------------------------------------------------|--------------------------------------------------------|-------|
| <del></del> | SITE ID    | DEPTH (ft) | <u> </u>                                             | 37003                                                  | UNITS |
|             | PBN-91-02C |            | 0.000                                                | 8.000                                                  | ug/L  |
|             | PBN-91-03C |            | 0.000                                                | 9.900                                                  | ug/L  |
|             | PBM-90-03D |            | 0.000                                                | 7.000                                                  | ug/L  |
|             | PBN-90-04B |            | 0.000                                                | 10.000                                                 | ug/L  |
|             | PBN-90-04D |            | 0.000                                                | 66.000                                                 | ug/L  |
|             | SWN-91-01B |            | 3.000                                                | 0.000                                                  | ug/L  |
|             | SWN-91-01C |            | 0.000                                                | 6.000                                                  | ug/L  |
|             | SWN-91-01D |            | 3.000                                                | 0.000                                                  | ug/L  |
|             | SWN-91-02C |            | 2.000                                                | 66.000                                                 | ug/L  |
|             | SWN-91-02D |            | 0.000                                                | 90.000                                                 | ug/L  |
|             | SWN-91-03B |            | 0.000                                                | 108.000                                                | ug/L  |
|             | SWN-91-03C |            | 0.000                                                | 6.000                                                  | ug/L  |
|             | SWN-91-03D |            | 0.000                                                | 54.000                                                 | ug/L  |
|             | SWN-91-03E |            | 0.000                                                | 120.000                                                | ug/L  |
|             | SWN-91-04C |            | 5.000                                                | 5.000                                                  | ug/L  |
|             | SWN-91-04D |            | 5.000                                                | 0.000                                                  | ug/L  |
|             | SWN-91-05B |            | 0.000                                                | 6.000                                                  | ug/L  |
|             | SWN-91-05D |            | 0.000                                                | 60.000                                                 | ug/L  |

# TABLE L4-2 DETECTION OF NONTARGET, LIBRARY SEARCHED COMPOUNDS IN METHOD BLANKS ASSOCIATED WITH SELECTED SAMPLES FROM TABLE L4-1

| SITE ID    | SAMPLE<br>ROUND <sup>1</sup> | CHEMICAL<br>DATA LOT | COMPOUND CLASS | SAMPLE<br>UNK XXX | CONC.<br>(ug/l) | LOT METHOD<br>BLANK<br>UNK XXX <sup>2</sup> | CONC. |
|------------|------------------------------|----------------------|----------------|-------------------|-----------------|---------------------------------------------|-------|
| S1133      | R1                           | VHP                  | voc            | UNK 180           | 60              | UNK179                                      | 30    |
| SPN-91-03D | R1                           | VHP                  | voc            | UNK 182           | 40              | UNK179                                      | 30    |
| DBM-82-01  | R1                           | VHP                  | voc            | UNK181            | 30              | UNK179                                      | 30    |
| ELM-89-09  | R1                           | VHP                  | voc            | UNK 180           | 30              | UNK 179                                     | 30    |
| NAN-81-04C | R1                           | VHR                  | voc            | UNK 178           | 20              | UNK 180                                     | 20    |
| S1126      | RI                           | VHR                  | voc            | UNK 181           | 20              | UNK 180                                     | 20    |
| SWN-91-03E | R1                           | VHR                  | voc            | UNK 181           | 20              | UNK 180                                     | 20    |
| PBM-82-05  | RI                           | SIA                  | SVOC           | UNK529            | 40              | UNK530                                      | 20    |

NOTES: 1 R1 - Round One Groundwater Sample (Nov/Dec. 1991).

Best-fit matches from mass spectrometer library file searches for nontarget, library searched compounds detected in chemical data lot VHP, VHR, and SIA method blanks are trichloroheptafluorobutane, 1,1,3,4-tetrachloro-1,2,2,3-butane, and 2,4-dimethyl-2-pentanol, respectively.

| SITE ID      | SAMPLE<br>ROUND | DEPTH    |            |            |             |                                         |       |              |
|--------------|-----------------|----------|------------|------------|-------------|-----------------------------------------|-------|--------------|
| SITE ID      | DOLIND          |          |            | COMPOUNI   | )           | NAME OF BEST                            |       |              |
| JIIL ID      | KOUND           | (feet)   | LOT        | CLASS      | UNKXXX      | MATCH COMPOUND                          | CONC. | UNITS        |
| BACKGROUND   | SOIL AND        | GROUNDW  | /ATER      |            |             |                                         |       |              |
| BGM-91-02    | SB              | 22       | QSH        | voc        | 081         | Unknown Oxyhydrocarbon                  | 0.5   | ug/g         |
| BGM-91-02    | SB              | 22       | QSG        | svoc       | 624         | @ C8 adipate ester                      | 0.5   | ug/g         |
| BGM-91-02    | SB              | 22       | QSG        | SVOC       | 624         | @ C24 Oxy Unsaturated H.C.              | 0.5   | ns/s         |
| BGM-91-03    | SB              | 22       | QSG        | svoc       | 623         | @ C8 adipate ester                      | 4     | ng/g         |
| BGM-91-03    | SB              | 22       | QSG        | SVOC       | 627         | @ C25 alkene                            | 3     | ug/g         |
| BGM-91-03    | SB              | 22       | QSG        | SVOC       | 602         | Phthalate ester                         | 2     | ug/g         |
| BGM-91-03    | SB              | 22       | QSG        | svoc       | 558         | Hexanoic Acid, 2-ethyl-                 | 1     | n&\&         |
| S1129        | R1              | NA       | SID        | svoc       | 547         | 2-pyrrolidinone, 1-methyl-              | 10    | ug/l         |
| S1129        | R2              | NA       | six        | svoc       | 547         | 2-Pyrrolidinone, 1-methyl-              | 1000  | ug/l         |
| S1129        | R2              | NA       | SIX        | svoc       | 534         | Phenoi, 2—fluoro—                       | 20    | ug∕l         |
| PROPELLANT E | BURNING G       | ROUND/ L | ANDFILL 1/ | SETTLING P | ONDS AND SI | POILS DISPOSAL AREA                     |       |              |
| PBS-91-99    | S               | 0        | PXB        | voc        | 013         | Unknown Hydrocarbon                     | 2     | ug/g         |
| 91-02        | SB              | 12       | QDO        | voc        | 173         | 1,1'-Oxybisbutane                       | 200   | ug/g         |
| 91-02        | SB              | 12       | QDO        | VOC        | 130         | 2-Methylpropyl ester Acetic Acid        | 90    | ug/g         |
| FDD-91-02    | SB              | 12       | QDO        | VOC        | 168         | Hydrocarbon                             | 80    | ug/g         |
| PBB-91-02    | SB              | 12       | QDO        | VOC        | 138         | Unknown Hydrocarbon                     | 60    | ug/g         |
| PBB-91-02    | SB              | 12       | QDO        | VOC        | 159         | C3 substituted cyclohexane              | 50    | n&\&         |
| PBB-91-02    | SB              | 12       | QDO        | voc        | 178         | 1,1,2,3 - Tetramethylcyclohexane        | 40    | <b>ид/</b> д |
| PBB-91-02    | SB              | 12       | QDO        | VOC        | 155         | Ethylmethylcyclohexane isomer           | 40    | ug/g         |
| PBB-91-02    | SB              | 12       | QDO        | voc        | 180         | C9 Hydrocarbon                          | 30    | ug/g         |
| PBB-91-02    | SB              | 12       | QDO        | voc        | 127         | 2,4-Dimethyl-3-pentanone                | 30    | ug/g         |
| PBB-91-02    | SB              | 12       | QDO        | voc        | 149         | C9 Bicycloparafin                       | 30    | ug/g         |
| PBB-91-02    | SB              | 12       | QDO        | voc        | 181         | Unknown Hydrocarbon                     | 20    | nā\š         |
| PBB-91-02    | SB              | 12       | QDO        | voc        | 194         | Ethylmethylbenzene isomer               | 20    | n&\&         |
| PBB-91-02    | SB              | 12       | QDO        | voc        | 161         | 1-ethyl-4-methylcyclohexane isomer      | 20    | ug/g         |
| PBB-91-02    | SB              | 12       | QDO        | voc        | 186         | Unknown Hydrocarbon                     | 10    | ug/g         |
| PBB-91-02    | SB              | 12       | QDO        | voc        | 146         | C9 Hydocarbon                           | 8     | ug/g         |
| PBB-91-02    | SB              | 12       | QDO        | voc        | 147         | Unknown Hydrocarbon                     | 5     | ug/g         |
| PBB-91-02    | SB              | 12       | QDO        | VOC        | 081         | 2-Propylfuran                           | 3     | nā\š         |
| PBB-91-02    | SB              | 12       | QDO        | VOC        | 164         | C10 Oxyhydrocarbon                      | 3     | ng/g         |
| PBB-91-02    | SB              | 12       | QDO        | VOC        | 041         | Acetic Acid ester                       | 2     | ng/g         |
| PBB-91-02    | SB              | 12       | QDO        | VOC        | 141         | Tricyclo[3.3.1.13,7]decane              | 2     | n8/8         |
| PBB-91-02    | SB              | 12       | QDO        | voc        | 073         | Ethyl ester Acetic Acid                 | 1     | nā\ā         |
| PBB-91-06    | SB              | 12       | czx        | voc        | 205         | 3-hexene, 3-ethyl-2,5-dimethyl-         | 174   | nā/ā         |
| PBB-91-06    | SB              | 12       | CZX        | voc        | 192         | Cyclohexanemethanol                     | 163   | nf/g         |
| PBB-91-06    | SB              | 12       | CZX        | VOC        | 205         | Bicyclo[3.1.0] Hexan-3-one, 4-methyl-   | 128   | mā\š         |
| PBB-91-06    | SB              | 12       | CZX        | VOC        | 185         | 2-Undecene, 6-methyl-,(E)-              | 108   | mE/E         |
| 91-06        | SB              | 12       | CZX        | voc        | 204         | Decane                                  | 102   | n6\š         |
| 91-06        | SB              | 12       | CZX        | voc        | 177         | Cyclohexane, 1-ethyl-4-methyl-, trans-, | 69.7  | mE\š         |
| -91-06       | SB              | 12       | CZX        | voc        | 174         | nonane                                  | 27.9  | më\£         |

|           |         |        | BADGER | ARMI AMMON | IIION FLANT |                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|---------|--------|--------|------------|-------------|----------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | SAMPLE  | DEPTH  |        | COMPOUNI   | )           | NAME OF BEST                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SITE ID   | ROUND   | (feet) | LOT    | CLASS      | UNKXXX      | MATCH COMPOUND                         | CONC. | רואט                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|           |         |        |        |            |             |                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PBB-91-06 | SB      | 12     | CZX    | VOC        | 197         | 1-Decene, 3-4-dimethyl-                | 24.4  | nē/ē                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBB-91-06 | SB      | 12     | CZX    | VOC        | 200         | Cyclohexane, diethyl                   | 22.1  | n8∖ā                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBB-91-06 | SB      | 12     | CZX    | VOC        | 197         | Benzene, (1.3.3 - trimethyl nonyi)     | 22.1  | n6\8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBB-91-06 | SB      | 12     | CZX    | VOC        | 181         | 1 - Decane, 8 - methyl                 | 17.4  | ng/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBB-91-06 | SB      | 16     | czx    | voc        | 156         | Hydroxylamine, O-(3-methylbutyl)-      | 60.2  | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBB-91-06 | SB      | 16     | czx    | VOC        | 192         | Cyclohexane, undecyl-                  | 38.1  | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBB-91-06 | SB      | 16     | CZX    | VOC        | 205         | Cyclohexane, 1-methyl-2-propyl-        | 31.1  | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBB-91-06 | SB      | 16     | CZX    | VOC        | 189         | 1-Decene, 8-methyl-                    | 15.5  | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBB-91-06 | SB      | 16     | CZX    | VOC        | 185         | 2-Undecene, 6-methyl-, (E)-            | 15.5  | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBB~91~06 | SB      | 26     | czx    | VOC        | 156         | Hydroxylamine, O-(3-methylbutyl)-      | 40.7  | ug/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| FBB-91-00 | 36      | 20     | CLA    | ,,,,       |             | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 608         | Phthalate ester                        | 70    | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 607         | Phthalate ester                        | 20    | na\t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 642         | Nitrogen PNA                           | 10    | nā/ž                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 621         | Phthalate ester                        | 10    | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 605         | Dihydrobenzopyranone                   | 10    | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 619         | PNA; MW=338                            | 8     | n8∖£                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 609         | Polycyclic aromatic amine              | 8     | ug/ş                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 634         | Unsaturated Hydrocarbon                | 6     | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 631         | Unknown                                | 5     | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s |
| PBS-91-10 | S       | 0      | PTU    | svoc       | 653         | Phthalate ester                        | 4     | h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 650         | Unsaturated Hydrocarbon                | 4     | 8/8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 606         | Phthalate ester                        | 4     | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 632         | Unknown                                | 3     | na/i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 641         | Nitrogen PNA                           | 3     | ug/į                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 629         | Phthalate ester                        | 3     | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 637         | Phthalate ester                        | 3     | ng/i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 628         | Phthalate ester                        | 3     | ug/;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 634         | Polycyclic aromatic amine; MW=259      | 2     | ng/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 630         | Unsaturated Hydrocarbon                | 2     | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 633         | Polycyclic aromatic amine; MW=259      | 2     | ug/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 628         | Phthalate ester                        | 2     | ug/_                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 630         | Phthalate ester                        | 2     | n8/š                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 627         | Bromine containing PNA                 | 1     | ug/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 631         | Phthalate ester                        | 1     | ug/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 636         | Alkane @ C26                           | 1     | na/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 629         | PNA; MW=239                            | 1     | ns\.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 633         | Hexacosane                             | 1     | ug/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 629         | Phthalate ester                        | 0.7   | nā\⊊                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-10 | S       | 0      | PTU    | SVOC       | 627         | Dihydobenzopyranone                    | 0.5   | nf\£                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-65 | S       | 0      | PWI    | SVOC       | 670         | @ C32 Aldehyde                         | 9     | ug/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PBS-91-65 | S       | 0      | PWI    | SVOC       | 650         | @ C30 Aldehyde                         | 4     | ug/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-65 | S       | 0      | PWI    | SVOC       | 649         | @ C28 Branched Alkane                  | 2     | ug/~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PBS-91-65 | s<br>\$ | 0      | PWI    | SVOC       | 607         | 9-Hexadecanoic Acid                    | 2     | ug.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PBS-91-65 | S       | 0      | PWI    | SVOC       | 655         | Triacontane                            | 2     | ng/k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|           |         |        | PWI    | SVOC       | 634         | @ C27 Aldehyde                         | 1     | /s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PBS-91-65 | S       | 0      | PWI    | SVOC       | 607         | Hexadecanoic Acid                      | ,     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PBS-91-65 | S       | 0      | PWI    | 3400       | <b>5</b> 07 | HOMEGOERON CONT                        | • `   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|                  | SAMPLE | DEPTH    |       | COMPOUNT     | <b>)</b>   | NAME OF BEST                            |          |       |
|------------------|--------|----------|-------|--------------|------------|-----------------------------------------|----------|-------|
| SITE ID          | ROUND  | (feet)   | LOT   | CLASS        | UNKXXX     | MATCH COMPOUND                          | CONC.    | UNITS |
|                  |        |          |       |              |            |                                         |          |       |
| PBS-91-65        | S      | 0        | PWI   | SVOC         | 630        | @ C26 Unsaturated Oxyhydrocarbon        | 0.9      | ug/g  |
| PBS-91-65        | S      | 0        | PWI   | SVOC         | 632        | @ C26 Aldehyde                          | 0.9      | ug/g  |
| PBS-91-65        | S      | 0        | PWI   | svoc         | 628        | @ C25 Aldehyde                          | 0.5      | ug/g  |
| PBS-91-118       | s      | 3        | PXX   | svoc         | 609        | Nitro phenyl benzenamine                | 20       | ug/g  |
| PBS-91-118       | S      | 3        | PXX   | svoc         | 607        | Hexadecanoic Acid                       | 8        | ug/g  |
| PBS-91-118       | s      | 3        | PXX   | SVOC         | 605        | Nitro phenyl alcohol                    | 6        | ug/g  |
| PBS-91-118       | S      | 3        | PXX   | svoc         | 616        | Octadecanoic Acid                       | 5        | ug/g  |
| PBS-91-118       | S      | 3        | PXX   | SVOC         | 664        | @ C31 Alkane                            | 4        | ug/g  |
| PBS-91-118       | s      | 3        | PXX   | SVOC         | 688        | @ C33 Polycyclic H.C.                   | 2        | ug/g  |
| PBS-91-118       | s      | 3        | PXX   | SVOC         | 615        | Unknown acid                            | 2        | ug/g  |
| PBS-91-118       | s      | 3        | PXX   | svoc         | 645        | @ C28 Oxy unsaturated H.C.              | 0.9      | ug/g  |
| PBS-91-118       | s      | 3        | PXX   | SVOC         | 598        | Unknown Phthalate                       | 0.9      | ug/ջ  |
| PBS-91-118       | S      | 3        | PXX   | SVOC         | 572        | 1,2,3-Propanetriol, diacetate           | 0.9      | ug/g  |
| PBS-91-118       | S      | 3        | PXX   | svoc         | 598        | Benzonitrile, 2-(2-pyridinyl)-          | 0.7      | ug/g  |
| PBS-91-118       | s      | 3        | PXX   | SVOC         | 555        | Hexanoic Acid, 2-ethyls-                | 0.6      | ug/g  |
| PBS-91-118       | s      | 3        | PXX   | svoc         | 631        | Aldehyde                                | 0.5      | ug/g  |
| PBS-91-118       | s      | 3        | PXX   | svoc         | 633        | @ C26 Oxy unsaturated H.C.              | 0.4      | ug/g  |
| PBS-91-118       | S      | 3        | PXX   | svoc         | 628        | Nitro phenyl benzenamine                | 0.3      | ug/g  |
| <b>DDD</b> 01 04 | 20     |          | 0011  | er oo        | 587        | Alkyl nitro Benzoic Acid                | 300      |       |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         |            | •                                       | 200      | ug/g  |
| 91-04            | SB     | 72       | QGU   | svoc         | 609        | Nitro phenyl benzenamine                | 200      | ug/g  |
| 91-04            | SB     | 72       | QGU   | SVOC         | 609        | Phthalate                               | 100      | ug/g  |
| PDD 01 04        | SB     | 72<br>20 | QGU   | SVOC<br>SVOC | 587<br>591 | Nitro cyclic H.C. PNA                   | 100      | ug/g  |
| PBB-91-04        | SB     | 72       | QGU · | SVOC         | 582        |                                         | 80       | ug/g  |
| PBB-91-04        | SB     | 72<br>~  | QGU   |              | 582<br>581 | Methyl dinitro aromatic                 | 30       | ug/g  |
| PBB-91-04        | SB     | 72<br>~  | QGU   | SVOC         |            | Benzene, 2 – methyl – dinitro –         | 30<br>30 | ug/g  |
| PBB-91-04        | SB     | 72<br>72 | QGU   | SVOC         | 622        | Nitro phenyl benzenamine Phthalate      | 30       | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC<br>SVOC | 610<br>590 | *************************************** | 30<br>10 | ug/g  |
| PBB-91-04        | SB     | 72<br>~  | QGU   |              | 590<br>590 | Alled sites assessed                    | 10       | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         |            | Alkyl nitro aromatic                    |          | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         | 609        | Phthalate                               | 10       | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         | 613        | Bicyclic phenyl H.C.                    | 10       | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         | 610        | Nitro phenyl benzenamine                | 8        | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         | 605        | Phinalaic  Disculled to be to           | 4        | nā/ā  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         | 618        | Bicyclic alcohol                        |          | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         | 603        | @ C19 Cyclic unsaturated H.C.           | 2        | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         | 606        | Phthalate                               | 2        | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         | 587        | Alkyl nitro Benzoic Acid                | 2        | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | svoc         | 580        | P.C.H.C                                 | 1        | ng/g  |
| PBB-91-04        | SB     | 72       | QGU   | svoc         | 621        | Cyclic propanamine                      | 0.7      | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | svoc         | 604        | Oxy cyclic unsaturated H.C.             | 0.6      | nā\š  |
| PBB-91-04        | SB     | 72       | QGU   | svoc         | 589        | Oxy cyclic H.C.                         | 0.6      | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | svoc         | 607        | P.C. oxy H.C.                           | 0.4      | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         | 585        | @ C15 Cyclic H.C.                       | 0.3      | ug/g  |
| PBB-91-04        | SB     | 72       | QGU   | SVOC         | 586        | @ C16 alkane                            | 0.3      | ug/g  |
| PBR-91-06        | SB     | 12       | QPK   | svoc         | 587        | Benzoic Acid, methyl-nitro              | 5000     | ug/g  |
| 91-06            | SB     | 12       | QPK   | svoc         | 553        | @ C9 branched alkane                    | 300      | n&\t  |
| 91-06            | SB     | 12       | QPK   | svoc         | 613        | Heneicosane                             | 200      | ns/s  |
|                  |        |          |       |              |            |                                         |          |       |

|            |          |          | DI LO GERTI |          |            | •                                               |            |               |
|------------|----------|----------|-------------|----------|------------|-------------------------------------------------|------------|---------------|
|            | SAMPLE   | DEPTH    |             | COMPOUND | )          | NAME OF BEST                                    |            |               |
| SITE ID    | ROUND    | (feet)   | LOT         | CLASS    | UNKXXX     | MATCH COMPOUND                                  | CONC.      | UNI           |
|            |          |          |             |          |            |                                                 |            |               |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 590        | Benzenamine-methyl-nitro-                       | 200        | n8\£          |
| PBB-91-06  | SB       | 12       | QPK         | svoc     | 599        | Octadecane                                      | 200        | ng/i          |
| PBB-91-06  | SB       | 12       | QPK         | svoc     | 604        | @ C19 alkene                                    | 200        | ng/k          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 609        | Benzenamine, -initro-phenyl-                    | 200        | <b>ո8</b> /8  |
| PBB-91-06  | SB       | 12       | QPK         | svoc     | 594        | @ C18 unsaturated H.C.                          | 200        | n <b>a</b> ∖≀ |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 614        | P.C.H.C                                         | 100        | ug/į          |
| PBB-91-06  | SB       | 12       | QPK         | svoc     | 596        | @ Oxy alkene                                    | 100        | ug/g          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 609        | @ C20 Aldehyde                                  | 100        | ng/£          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 603        | @ C19 Unsaturated city H.C.                     | 100        | ug/į          |
| PBB-91-06  | SB       | 12       | QPK         | svoc     | 598        | Bialkyl phenol                                  | 100        | ug/g          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 597        | @ C18 aldehyde                                  | 100        | ng/g          |
| PBB-91-06  | SB       | 12       | QPK         | svoc     | 598        | @ C18 cyclic oxy H.C.                           | 100        | ug/į          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 604        | @ C19 Unsaturated oxy H.C.                      | 100        | ոճ/ն          |
| PBB-91-06  | SB       | 12       | QPK         | svoc     | 602        | @ C19 Unsaturated oxy H.C.                      | 90         | ug/g          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 619        | P.C. aromatic alcohol                           | 80         | ng/i          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 612        | @ C21 Unsaturated oxy H.C.                      | 80         | ug/į          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 606        | @ C20 oxy H.C.                                  | 80         | ug/g          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 611        | @ C21 Unsaturated oxy H.C.                      | <b>7</b> 0 | ug/g          |
| PBB-91~06  | SB       | 12       | QPK         | SVOC     | 608        | @ C20 Oxy alkene                                | 70         | ng/i          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 612        | @ C21 Alkene                                    | 70         | սց/լ          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 602        | @ C19 Unsaturated oxy H.C.                      | 60         | ug/g          |
| PBB-91~06  | SB       | 12       | QPK         | SVOC     | 599        | @ C19 Oxy unsaturated H.C.                      | 60         | We/:          |
| PB 3-91-06 | SB       | 12       | QPK         | SVOC     | 593        | @ C17 alkene                                    | 60         | Ji.           |
| PBB91-06   | SB       | 12       | QPK         | SVOC     | 601        | @ C19 Unsaturated oxy H.C.                      | 60         | ug/g          |
| PBB-91-06  | SB       | 12       | QPK         | svoc ·   | 606        | @ C20 Unsaturated oxy H.C.                      | 60         | ug/g          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 609        | Unknown                                         | 60         | ug/s          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 594        | Heptadecane                                     | 60         | ug/L          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 595        | @ C18 Oxy unsaturated H.C.                      | 60         | ug/g          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 605        | @ C18 Unsaturated oxy H.C.                      | 50         | n6\i          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 596        | @ C18 Unsaturated oxy cyclic H.C.               | 40         | ug/į          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 609        | @ C21 Unsaturated oxy H.C.                      | 40         | ug/g          |
| PBB-91-06  | SB       | 12       | QPK         | SVOC     | 599        | @ C18 Oxy unsaturated H.C.                      | 40         | ug/p          |
| PBB-91-06  | SB       | 12       | QPK         | svoc     | 607        | @ C20 Oxy aikene                                | 40         | ug/i          |
| LOM-91-02  | R1       | NA       | SIM         | svoc     | 635        | Heptadectane, 2,6,10,15—Tetramethyl             | 177        | ug/i          |
| LOM-91-02  | R1       | NA       | SIM         | SVOC     | 630        | Iron, Tricarbonyl N-(Phenyl-2-Pyridinyl-methyl) | 169        | ug/           |
| LOM-91-02  | R1       | NA       | SIM         | SVOC     | 641        | Heptadecane, 2,6,10,15—Tetramethyl              | 163        | ug/           |
| LOM-91-02  | R1       | NA       | SIM         | svoc     | 626        | Heptadecane, 2,6,10,15—Tetramethyi—             | 144        | ns/l          |
| LOM-91-02  | Ri       | NA       | SIM         | svoc     | 655        | Heptadecane, 2,6,10,15—Tetramethyl—             | 138        | ug/           |
| LOM-91-02  | R1       | NA       | SIM         | svoc     | 647        | Heptadecane, 2,6,10,15 Tetramethyl-             | 137        | ug/           |
| LOM-91-02  | R1       | NA       | SIM         | svoc     | 664        | Heptadecane, 2,6,10,15 Tetramethyl-             | 94         | n&\           |
| LOM-91-02  | R1       | NA       | SIM         | svoc     | 622        | Heptadecane, 2,6,10,15—Tetramethyl—             | 83         | ug/l          |
| LOM-91-02  | R1       | NA<br>NA | SIM         | svoc     | 674        | Heptadecane, 2,6,10,15—Tetramethyl—             | 73         |               |
| LOM-91-02  | R1       | NA<br>NA | SIM         | SVOC     | 547        | 2-Pyrrolidinone, 1-methyl                       | 75<br>56   | ug/           |
| LOM-91-02  | R1       | NA<br>NA | SIM         | SVOC     | 547<br>688 | 2-Fyrrondinone, 1-metnyi Heptadecane            | 36         | ug/           |
| LOM-91-02  |          | NA<br>NA | SIM         | SVOC     | 618        | Dodecane, 2,7,10 – trimethyl                    | 33         | ne/           |
| LOM-91-02  | R1<br>R1 | NA<br>NA | SIM         | SVOC     | 704        | Dodecane, 1-lodo                                | 33<br>18   | ug/           |
| LOM-91-02  | R1       | NA<br>NA | SIM         | SVOC     | 536        | 4H-1,2,4-Triazol-3-amine, 4 ethyl               | 8 🛥        | ug/           |
| LOM-91-02  |          |          |             | SVOC     |            | Dodecane, 2,6,11 – Trimethyl                    | 7          | ug/l          |
|            | R1       | NA<br>NA | SIM         |          | 723<br>613 | •                                               | <b>\</b>   | g/l           |
| LOM-91-02  | R1       | NA       | SIM         | SVOC     | 613        | Dodecane, 2,7,10 - Trimethyl -                  | 6          | nk,           |

|                        | SAMPLE    | DEPTH     |           | COMPOUND | )      | NAME OF BEST                                         |       |             |
|------------------------|-----------|-----------|-----------|----------|--------|------------------------------------------------------|-------|-------------|
| SITE ID                | ROUND     | (feet)    | LOT       | CLASS    | UNKXXX | MATCH COMPOUND                                       | CONC. | UNITS       |
|                        |           |           |           |          |        |                                                      |       |             |
| LOM-91-02              | R1        | NA        | SIM       | SVOC     | 552    | Hexanoic Acid, 2—ethyl                               | 4     | ug/l        |
| PBM-82-05              | R1        | NA        | SIA       | SVOC     | 547    | 2-Pyrrolidinone, 1-methyl                            | 17.0  | ug/l        |
| PBN-91-12D             | Ri        | NA        | SIE       | svoc     | 547    | 2-Pyrrolidinone, 1-methyl                            | 500   | ug/l        |
| PBN-91-12D             | R1        | NA        | SIE       | svoc     | 542    | 2(3H) - Furanone, 5 - Butydihydro - 4 - methyl - cis | 10    | ug/l        |
| PBN-89-10C             | R1        | NA        | SIP       | svoc     | 547    | 2-Pyrrolidinone, 1-methyl-                           | 900   | ug/l        |
| PBN-89-10C             | R1        | NA        | SIP       | SVOC     | 544    | 1,3-Cyclopentanedione, 2-Chloro-                     | 60    | ug/l        |
| PBN-89-10C             | R1        | NA        | SIP       | SVOC     | 552    | Hexanoic Acid, 2—ethyl                               | 9     | ug/i        |
| PBN-89-10C             | Ri        | NA        | SIP       | SVOC     | 588    | 2(3H) - Furanone, 3 - Acetyldihydro -                | 7     | ug/l        |
| PBN-89-10C             | R1        | NA        | SIP       | SVOC     | 529    | 1,3-Dioxalane-2-methanol, 2,4-dimethyl               | 6     | ug/l        |
| PBN-89-10C             | R1        | NA        | SIP       | SVOC     | 626    | Hexanedioic Acid, mono(2-ethylhexyl)ester            | 6     | ug/i        |
| PBN-89-10C             | R1        | NA        | SIP       | SVOC     | 539    | Phenol, 2-Fluoro                                     | 4     | ug/l        |
| PBN-89-10C             | R1        | NA        | SIP       | SVOC     | 572    | 1(3H) – Isobenzofuranone                             | 4     | ug/î        |
| SPN-91-02D             | Ri        | NA        | SIP       | svoc     | 547    | 2-Pyrrolidinone, 1-methyl-                           | 900   | ug/l        |
| SPN-91-02D             | R1        | NA        | SIP       | SVOC     | 544    | 1,3-Cyclopentanedione, 2-Chloro                      | 50    | ug/l        |
| SPN-91-02D             | R1        | NA        | SIP       | SVOC     | 552    | Hexanoic Acid, 2-ethyl-                              | 20    | ug/l        |
| SPN-91-02D             | R1        | NA        | SIP       | svoc     | 572    | 1(3H)-Isobenzofuranone                               | 8     | ug/l        |
| SPN-91-02D             | R1        | NA        | SIP       | SVOC     | 529    | 1,3-Dioxolane, -2-methanol, 2,4-dimethyl             | 6     | ug/l        |
| -91-01                 | R2        | NA        | SID       | svoc     | 554    | 2 – Pyrrolidinone, 1 – methyl –                      | 200   | ug/l        |
| 91-01                  | K2        | NA.       | มบ        | 3400     | 334    | 2-ryronamone, 1-memyr-                               | 200   | ug.         |
| LON-89-02B             | R2        | NA        | SJD       | SVOC     | 554    | 2-Pyrrolidinone, 1-methyl-                           | 300   | ug/l        |
| PBN-82-02A             | R2        | NA        | SIX       | SVOC     | 545    | 2-Pyrrolidinone, 1-methyl-                           | 33    | ug/l        |
| PBN-82-02B             | R2        | NA        | SIX       | svoc     | 546    | 2 - Pyrrolidinone, 1 - methyl -                      | 22    | ug/l        |
| DETERRENT BU           | URNING GE | ROUND/ EX | usting La | MDFILL   |        |                                                      |       |             |
| DBB-91-01              | SB        | 15        | QGE       | voc      | 194    | Unknown Hydrocarbon                                  | 0.9   | กธ/ธ        |
| DBB-91-01              | SB        | 15        | QGE       | VOC      | 188    | Unknown Hydrocarbon                                  | 0.7   | n8/8        |
| DBB-91-01              | SB        | 25        | QGD       | svoc     | 609    | Phthalate                                            | 2000  | nā\ā        |
| DBB-91-01              | SB        | 25        | QGD       | SVOC     | 610    | Phthalate                                            | 200   | ug/g        |
| DBB-91-01              | SB        | 25        | QGD       | SVOC     | 622    | Nitro-phenyl benzenamine                             | 200   | ug/g        |
| DBB-91-01              | SB        | 15        | QGD       | svoc     | 622    | Nitro-phenyl benzenamine                             | 100   | ug/g        |
| DBB-91-01              | SB        | 15        | QGD       | svoc     | 609    | Nitro-phenyl benzenamine                             | 80    | ug/g        |
| DBB-91-01              | SB        | 15        | QGD       | svoc     | 610    | Phthalate                                            | 80    | ug/g        |
| DBB-91-01              | SB        | 25        | QGD       | svoc     | 610    | Nitro-phenyl benzenamine                             | 80    | na/a        |
| DBB-91-01              | SB        | 15        | QGD       | SVOC     | 589    | Alkyl dinitro benzene                                | 60    | ug/g        |
| DBB-91-01              | SB        | 25        | QGD       | SVOC     | 621    | Nitro-phenyl benzenamine                             | 40    | n8/8        |
| DBB-91-01<br>DBB-91-01 | SB        | 15        | QGD       | svoc     | 610    | Nitro-phenyl benzenamine                             | 30    | ug/g        |
| DBB-91-01              | SB        | 25        | QGD       | svoc     | 631    | Nitrogen containing PNA, MW=240                      | 30    | nS\S<br>_ex |
| DBB-91-01<br>DBB-91-01 | SB        | 15        | QGD       | svoc     | 621    | Nitro-phenyl benzenamine                             | 20    | nā\š<br>_e. |
|                        | SB        | 25        | QGD       | SVOC     | 598    | Nitro pinenyi oenzenamme Nitro aromatic              | 20    |             |
| 91-01                  | SB        | 25<br>25  | QGD       | SVOC     | 633    | Nitro – phenyl benzenamine                           | 20    | ug/g        |
| 91-01                  |           |           |           |          |        | • •                                                  | 10    | në/ë        |
|                        | SB        | 15        | QGD       | SVOC     | 583    | Alkyl dinitro benzene                                | 10    | ng/E        |

|                    |        |        | BADGER A   | ARMY AMMUN | IIION PLAN I |                                 |        |                |
|--------------------|--------|--------|------------|------------|--------------|---------------------------------|--------|----------------|
|                    | SAMPLE | DEPTH  |            | COMPOUND   | )            | NAME OF BEST                    |        |                |
| SITE ID            | ROUND  | (fcet) | LOT        | CLASS      | UNKXXX       | MATCH COMPOUND                  | CONC.  | וואט           |
|                    |        |        |            |            |              | Nitro-phenyl benzenamine        | 10     |                |
| DBB-91-01          | SB     | 15     | QGD        | SVOC       | 633<br>600   | Alkyl n-nitrosodiphenylamine    | 10     | n8\£<br>n\$\\$ |
| DBB-91-01          | SB     | 25     | QGD        | svoc       |              | Phthaiate                       | 10     |                |
| DBB-91-01          | SB     | 25     | QGD        | svoc       | 598          |                                 | 9      | n6\€           |
| DBB-91-01          | SB     | 15     | QGD        | SVOC       | 600          | Alkyl n-nitrosodiphenylamine    | 9      | ug/g           |
| DBB-91-01          | SB     | 15     | QGD        | SVOC       | 698          | Phthalate                       | 9      | ug/ş           |
| DBB-91-01          | SB     | 15     | QGD        | SVOC       | 571          | Cyclic Phenyl Acid              | · ·    | ug/g           |
| DBB-91-01          | SB     | 15     | QGD        | svoc       | 603          | Phthalate                       | 9      | ug/g           |
| DBB-91-01          | SB     | 25     | QGD        | SVOC       | 630          | Nitro-phenyl benzenamine        | 8      | n8∕£           |
| DBB-91-01          | SB     | 25     | QGD        | SVOC       | 633          | Ethyl Ester Acid                | 8      | n <b>g/</b> ξ  |
| .∌B <b>B−91−01</b> | SB     | 15     | QGD        | SVOC       | 598          | Nitro aromatic                  | 7      | ug/g           |
| DBB-91-01          | SB     | 25     | QGD        | SVOC       | 571          | Cyclic Phenyl Acid              | 7<br>7 | ng/g           |
| DBB-91-01          | SB     | 25     | QGD        | SVOC       | 628          | Nitro-phenyl benzenamine        |        | ug/į           |
| DBB-91-01          | SB     | 25     | QGD        | SVOC       | 617          | Substituted benzenamine         | 6      | ug/į           |
| DBB-91-01          | SB     | 25     | QGD        | SVOC       | 633          | Nitro-phenyl benzenamine        | 6      | ug/g           |
| DBB-91-01          | SB     | 25     | QGD        | SVOC       | 630          | Nitrogen containing PNA, MW=245 | 5      | n5\£           |
| DBB-91-01          | SB     | 15     | QGD        | SVOC       | 628          | Nitro-phenyl benzenamine        | 3      | ug/į           |
| DBB-91-01          | SB     | 25     | QGD        | svoc       | 613          | Unknown phthalate               | 3      | ug/g           |
| DBB-91-01          | SB     | 25     | QGD        | SVOC       | 612          | Silane containing H.C.          | 3      | ug/g           |
| DBB-91-02          | SB     | 8      | QGP        | svoc       | 609          | Unknown nitro aromatic amine    | 5      | սց/լ           |
| DBB-91-02          | SB     | 8      | QGP        | svoc       | 621          | Unknown nitro aromatic amine    | 4      | ug/g           |
| DBB-91-02          | SB     | 8      | QGP        | SVOC       | 622          | Unknown alkane @ C21            | 1      | e/i            |
| DBB-91-02          | SB     | 8      | QGP        | svoc       | 610          | Unknown phthalate ester         | 0.5    | y;             |
| 555 04 02          | 60     | 4.4    | ОНА        | SVOC       | 609          | Phthalate                       | 90     | ug/g           |
| DBB-91-03          | SB     | 14     | OHA        | SVOC       | 608          | Phthaiate                       | 80     | nā\i           |
| DBB-91-03          | SB     | 14     | -          | SVOC       | 622          | Phthalate                       | 70     | ug/լ           |
| DBB-91-03          | SB     | 14     | QHA<br>OHA | SVOC       | 621          | Nitrophenyl Benzenamine         | 20     | ug/g           |
| DBB-91-03          | SB     | 14     | -          | SVOC       | 609          | Nitrophenyl Benzenamine         | 20     | ug/;           |
| DBB-91-03          | SB     | 14     | QHA        |            | 633          | Nitrophenyl Benzenamine         | 10     | ug/;           |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 600          | Diphenyl Formide                | 9      | nā\t<br>-6\    |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       |              | Cyclic Aromatic                 | 7      | ng/s           |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 598<br>654   | Nitrophenyl Benzenamine         | 7      | ug/            |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       |              |                                 | 6      | ก&\*<br>~®     |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 589          | Alkyl Dinitrobenzene Phthalate  | 4      |                |
| DBB-91-03          | SB     | 14     | QHA        | svoc       | 620          |                                 | 7      | ug/g           |
| DBB-91-03          | SB     | 14     | QHA        | svoc       | 628          | Nitrophenyl Benzenamine         | 7      | ug/            |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 620          | Alkoxy Pyridine                 | 7      | ug/            |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 622          | Nitrophenyl Benzenamine         |        | ug/g           |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 629          | Dinitrophenyl Benzenamine       | •      | π <b>δ</b> \υ  |
| DBB-91-03          | SB     | 14     | QHA        | svoc       | 630          | PNA                             | 3      | n8             |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 616          | Polycyclic Oxyhydrocarbon       | 3      | n€\£           |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 625          | @ C8 Adipate                    | 3      | nk/k           |
| DBB-91-03          | SB     | 14     | QHA        | svoc       | 605          | Phthalate                       | 3      | ug.            |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 620          | Phthalate                       | 2      | ng/            |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 604          | Nitrophenylbenzene              | 2      | ug/g           |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 605          | Nitrophenylbenzene              | 2      | ug/-           |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 629          | @ C25 Alkene                    | 2      | _ n&           |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 591          | Alkyl Nitrobenzene              | 1 4    | A SA S         |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 616          | Alkoxyphenyl Benzenamine        | 1      | 5/5            |
| DBB-91-03          | SB     | 14     | QHA        | SVOC       | 618          | Nitrophenyl Benzenamine         | 1      | ug             |
|                    |        |        |            |            |              |                                 |        |                |

TABLE L4-3
TENTATIVE IDENTIFICATION OF SELECTED NONTARGET, LIBRARY SEARCHED COMPOUNDS

|                          | SAMPLE    | DEPTH    |            | COMPOUND     | 1          | NAME OF BEST                                                  |            |              |
|--------------------------|-----------|----------|------------|--------------|------------|---------------------------------------------------------------|------------|--------------|
| SITE ID                  | ROUND     | (feet)   | LOT        | CLASS        | UNKXXX     | MATCH COMPOUND                                                | CONC.      | UNITS        |
| SITE ID                  | KOOND     | (icei)   | ω.         | CLASS_       | ONKADA     | MATCH COM OUND                                                | CONC.      |              |
| DBB-91-03                | SB        | 14       | QHA        | svoc         | 618        | Nitro Polycyclic Hydrocarbon                                  | 0.9        | ug/g         |
| DBB-91-03                | SB        | 14       | QHA        | SVOC         | 632        | Polycylic Oxyhydrocarbon                                      | 0.8        | ug/g         |
| DBB-91-03                | SB        | 14       | QHA        | SVOC         | 607        | Nitrophenyl Benzenamine                                       | 0.5        | ug/g         |
|                          |           |          |            |              |            | • •                                                           |            |              |
| DBM-82-02                | Rî        | NA       | SII        | svoc         | 546        | 2-Pyrrolidinone, 1-methyl                                     | 20         | ug/l         |
| DBN-89-04B               | R1        | NA       | SIH        | svoc         | 547        | 2-Pyrrolidinone, 1-methyl                                     | 1000       | ug/i         |
| DBN-89-04B               | R1        | NA       | SIH        | SVOC         | 543        | 1,3-Cyclopentanedione, 2-Chloro                               | 40         | ug/l         |
| DBN-89-04B               | R1        | NA       | SIH        | SVOC         | 533        | Phenol, 2-Fluoro                                              | 30         | ug/i         |
| DBN-89-04B               | R1        | NA       | SIH        | SVOC         | 572        | 1(3H)—Isobenzofuranone                                        | 8          | ug/i         |
| E131 04 0ED              | 5.        | •••      | 011        | evoc         | 547        | 2 Domesidinana 1, method                                      | 900        |              |
| ELN-91-07B               | R1        | NA       | SII        | SVOC<br>SVOC | 547<br>543 | 2-Pyrrolidinone, 1-methyl  1,3-Cyclopentanedione, 2-chloro    | 800<br>40  | ug/l         |
| ELN-91-07B               | R1        | NA       | SII<br>SII | SVOC         | 545        | 1,5 - Cyclopentalledione, 2 - Choro  1 - Hexanol, 2 - Ethyl - | <b>3</b> 0 | ug/l<br>ug/l |
| ELN-91-07B               | R1        | NA<br>NA | SII        | SVOC         | 615        | Phenol, 2-(2H-Benzotriazol-2-yl)                              | 20         | ug/i<br>ug/i |
| ELN-91-07B<br>ELN-91-07B | R1<br>R1  | NA<br>NA | SII        | SVOC         | 615        | Phenol, 2-(211-benzottazot-2-yi)                              | 20         | ug/l         |
| ELN-91-07B               | R1        | NA<br>NA | SII        | SVOC         | 533        | Phenol, 2—Fluoro—                                             | 20         | ug/l         |
| ELN-91-07B               | R1        | NA<br>NA | SII        | svoc         | 572        | 1(3M)- Isobenzofuranone                                       | 20         | ug/l         |
| LL11-71-07D              | N.        | M        | 311        | 5,00         | J.2        | 1(01.1)                                                       |            | <b>-</b> g.  |
| DBM-82-02                | R2        | NA       | SIZ        | svoc         | 546        | 2-Pyrrolidinone, 1-methyl-                                    | 20         | ug/l         |
| -89-09                   | R2        | NA       | SIX        | svoc         | 570        | Ethanoi, 2-(2-Butoxyethoxy)-, Acetate                         | 10         | ug/l         |
| ELN-82-01B               | R2        | NA       | SIX        | svoc         | 548        | 2-Pyrrolidinone, 1-methyl-                                    | 4400       | ид/1         |
| ELN-82-01B               | R2        | NA       | SIX        | SVOC         | 551        | 2-Piperidinone, 1-methyl-                                     | 44         | ug/i         |
| ELN-82-01B               | R2        | NA       | SIX        | SVOC         | 540        | Phenol, 2-fluoro-                                             | 33         | ug/l         |
| ELN-82-01B               | R2        | NA       | SIX        | SVOC         | 550        | Piperidinone, 3,5-dimethyl-                                   | 18.7       | ug/l         |
| ELN-82-01B               | R2        | NA       | SIX        | SVOC         | 571        | 2-Buten-2-ol, 2,3-dimethyl-                                   | 4.4        | ug/l         |
|                          |           |          |            |              |            |                                                               |            |              |
| NITROGLYCER              | INE POND/ | ROCKET   | PASTE ARE  | EA/ NEW ACID | AREA       |                                                               |            |              |
| RPS-91-14                | s         | 0        | PRM        | svoc         | 606        | Cyclic Phenyl Alcohol                                         | 100        | ug/g         |
| RPS-91-14                | S         | 0        | PRM        | svoc         | 515        | Cyclic oxy Hydrocarbon                                        | 5          | ug/g         |
| RPS-91-14                | S         | 0        | PRM        | svoc         | 604        | Cyclic Phenyl Alcohol                                         | 4          | սց/ջ         |
| RPS-91-14                | S         | 0        | PRM        | SVOC         | 646        | Aldehyde                                                      | 2          | ug/g         |
| RPS-91-14                | S         | 0        | PRM        | svoc •       | 607        | Hexadecanoic Acid                                             | 2          | ug/g         |
| RPS-91-14                | S         | 0        | PRM        | SVOC         | 616        | Octadecanoic Acid                                             | 0.8        | ug/g         |
| RPS-91-14                | S         | 0        | PRM        | SVOC         | 596        | @ C17 Bicyclic Phenyl H.C.                                    | 0.6        | ug/g         |
| RPS-91-14                | S         | 0        | PRM        | SVOC         | 623        | Alkyl Phenyl Alcohol                                          | 0.5        | ng/g         |
| RPS-91-34                | s         | 0        | PXX        | SVOC         | 572        | 1,2,3 - Propanetriol Triacetate                               | 90         | ng/g         |
| RPS-91-34                | S         | 0        | PXX        | svoc         | 606        | Unknown Acid                                                  | 70         | ug/g         |
| RPS-91-34                | S         | 0        | PXX        | SVOC         | 595        | Chloro Nitro Benzenamine                                      | 7          | ug/g         |
| RPS-91-34                | S         | 0        | PXX        | svoc         | 607        | Hexadecanoic Acid                                             | 5          | ug/g         |
| RPS-91-34                | S         | 0        | PXX        | svoc         | 665        | @ C31 Alkane                                                  | 5          | ug/g         |
| RPS-91-34                | S         | 0        | PXX        | SVOC         | 649        | @ C29 Alkene                                                  | 5          | ug/g         |
| RPS-91-34                | S         | 0        | PXX        | SVOC         | 586        | Naphthalene, 1-Isocyanato-                                    | 4          | ug/g         |
| -91-34                   | S         | 0        | PXX        | svoc         | 565        | 1,2,3-Propanetriol Monoacetate                                | 4          | ug/g         |
| -91-34                   | S         | 0        | PXX        | SVOC         | 616        | Octadecanoic Acid                                             | 2          | nā\ē         |
| KrS-91-34                | S         | 0        | PXX        | SVOC         | 606        | Nitro Phenyl Alcohol                                          | 2          | n&\&         |
|                          |           |          |            |              |            |                                                               |            |              |

|           |        |          | BADGER A | ARMY AMMUNI | TION PLANT |                                      |       |              |
|-----------|--------|----------|----------|-------------|------------|--------------------------------------|-------|--------------|
|           | SAMPLE | DEPTH    |          | COMPOUND    |            | NAME OF BEST                         |       |              |
| SITE ID   | ROUND  | (feet)   | LOT      | CLASS       | UNKXXX     | MATCH COMPOUND                       | CONC. | רואט         |
|           |        |          |          |             |            |                                      |       |              |
| RPS-91-34 | S      | 0        | PXX      | SVOC        | 630        | @ C25 Alkene                         | 2     | ng/£         |
| RPS-91-34 | S      | 0        | PXX      | SVOC        | 578        | Propanetriol Diacetate               | 2     | n8∖t         |
| RPS-91-34 | S      | 0        | PXX      | SVOC        | 638        | @ C27 Alkane                         | 0.9   | ug/g         |
| RPS-91-34 | S      | 0        | PXX      | SVOC        | 596        | Alkyl Phenyl Carbazole               | 0.6   | ng/g         |
| RPS-91-34 | S      | 0        | PXX      | SVOC        | 622        | Alkyl Phenyl Oxy H.C.                | 0.6   | n8\ž         |
| RPS~91-34 | S      | 0        | PXX      | SVOC        | 597        | Tetradecanoic Acid                   | 0.5   | n8∖₹         |
| RPS-91-34 | S      | 0        | PXX      | SVOC        | 628        | Unknown Acid Ester                   | 0.5   | ug/g         |
| RPS-91-34 | S      | 0        | PXX      | SVOC        | 593        | 10 H - Phenoxazine                   | 0.4   | ug/į         |
| RPS-91-34 | S      | 0        | PXX      | SVOC        | 622        | @ C23 Bicyclic Hydrocarbon           | 0.4   | ug∕Ę         |
| RPS~91-38 | s      | NA       | PVE      | svoc        | 607        | Nitrophenyl alcohol                  | 300   | n8/8         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 572        | Polyacetate Propanetriol             | 200   | ug/į         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 596        | Phenyl Carbazole                     | 30    | սց/չ         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 623        | Oxy Cyclic Hydrocarbon               | 20    | ug/g         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 622        | Alkane @ C23                         | 9     | ug/ş         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 540        | 1H-Benzotriazole                     | 9     | սց/չ         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 624        | Nitro Phenyl Alcohol                 | 8     | ug/g         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 620        | Oxynitro Phenyl Hydrocarbon          | 7     | սջ/ջ         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 628        | Alkyl Phenylamine                    | 6     | ug/g         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 616        | Nitro Oxyphenyl Acid                 | 5     | ug/s         |
| RPS~91-38 | s      | NA       | PVE      | SVOC        | 608        | Nitrophenyl alcohol                  | 3     | ug/g         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 617        | Unsaturated cyclic Hydrocarbon @ C22 | 2     | Wg/t         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 604        | Unknown                              | 1 (   | <b>E/1</b>   |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 617        | Oxynitrophenyl Hydrocarbon           | 1     | ug/g         |
| RFS-91-38 | S      | NA       | PVE      | SVOC        | 613        | Nitrophenyl alcohol                  | 1     | u <i>g/g</i> |
| RPS~91~38 | S      | NA       | PVE      | svoc        | 618        | Oxynitro Cyclic Hydrocarbon          | 0.8   | ug/g         |
| RPS~91-38 | S      | NA       | PVE      | SVOC        | 623        | Nitro Oxy Phenyl Cyclic Hydrocarbon  | 0.7   | ug/g         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 621        | Polycyclic Oxyhyrocarbon @ C23       | 0.7   | ug/g         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 620        | Alkyl Phenyl Cyclic Hydrocarbon      | 0.6   | սջ/չ         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 588        | Alcohol                              | 0.6   | ug/ş         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 616        | Octadecanoic Acid                    | 0.6   | ug/g         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 602        | Unknown Oxyhydrocarbon               | 0.5   | ug/ŗ         |
| RPS-91-38 | S      | NA       | PVE      | SVOC        | 617        | Alkyl Benzamine                      | 0.5   | ug/s         |
| RPS-91-38 | S      | NA<br>NA | PVE      | svoc        | 624        | Nitro Cyclic Alkane @ C24            | 0.5   | ug/g         |
| RPS-91-38 | S      | NA       | PVE      | svoc        | 622        | Oxy Nitro Phenyl Hydrocarbon         | 0.4   | ug/g         |
| KF3-91-30 | 3      | 11/1     |          | 0.00        | •          |                                      |       |              |
| RPS-91-40 | S      | NA       | PVE      | svoc        | 572        | Triacetate - 1,2,3 - Propanetriol    | 200   | <b>աջ/</b> չ |
| RPS-91-40 | S      | NA       | PVE      | SVOC        | 607        | Nitrophenyl Alcohol                  | 200   | ug/g         |
|           |        | NA.      | PVE      | svoc        | 586        | Alkylnitro Benzoic Acid              | 200   | ug/j         |
| RPS-91-40 | S      | NA<br>NA | PVF.     | svoc        | 605        | @ C18 Oxyhydrocarbon                 | 50    | ug/j         |
| RPS-91-40 | S      | NA.      | PVE      | svoc        | 616        | Octadecanoic Acid                    | 40    | ug/g         |
| RPS-91-40 | S      | NA       | PVE      | svoc        | 623        | @ C23 Nitrophenyl Hydrocarbon        | 40    | n8/8         |
| RPS-91-40 | S      |          | PVE      | svoc        | 541        | 1H-Benzotriazole                     | 30    | ug/į         |
| RPS-91-40 | S      | NA<br>NA | PVE      | SVOC        | 628        | Alkylbenzenamine                     | 20    | n&\r         |
| RPS-91-40 | S      | NA<br>NA | PVE      | SVOC        | 604        | Long Chain Alcohol                   | 20    | ug/g         |
| RPS-91-40 | S      | NA       |          | SVOC        | 622        | @ C23 Alkane                         | 20    | ns/i         |
| RPS-91-40 | S      | NA       | PVE      | SVOC        | 624        | @ C23 Cyclic Nitroalkane             | 20    | ug/i         |
| RPS-91-40 | S      | NA<br>NA | PVE      | SVOC        | 620        | Alkyl Benzoxazołamine                | 20 4  | ng\t         |
| RPS-91-40 | S      | NA<br>NA | PVE      |             |            | Nitrophenyl Oxyhdrocarbon            | 10    | S/L          |
| RPS-91-40 | S      | NA       | PVE      | SVOC        | 604<br>602 | Unknown Acid                         | 10    | ug/;         |
| RPS-91-40 | S      | NA       | PVE      | SVOC        | 002        | Olikilowii Autu                      |       |              |

TABLE L4-3
TENTATIVE IDENTIFICATION OF SELECTED NONTARGET, LIBRARY SEARCHED COMPOUNDS

|              | SAMPLE | DEPTH    |     | COMPOUNI | )      | NAME OF BEST                                |        |               |
|--------------|--------|----------|-----|----------|--------|---------------------------------------------|--------|---------------|
| SITE ID      | ROUND  | (feet)   | LOT | CLASS    | UNKXXX | MATCH COMPOUND                              | CONC.  | UNIT:         |
| D.D.G. 04 40 |        | •••      |     |          |        |                                             |        |               |
| RPS-91-40    | S      | NA       | PVE | SVOC     | 602    | Unknown Acid                                | 10     | ug/g          |
| RPS-91-40    | S      | NA       | PVE | SVOC     | 617    | Alkylnitro Oxyhydrocarbon                   | 6      | ug/g          |
| RPS-91-40    | S      | NA       | PVE | SVOC     | 630    | @ C25 Alkene                                | 5      | ug/g          |
| RPS-91-40    | S      | NA       | PVE | SVOC     | 616    | Alkylnitrobenzamine                         | 5      | ug/g          |
| RPS-91-40    | S      | NA       | PVE | svoc     | 616    | Nitrophenyl Alcohol                         | 4      | ug/g          |
| RPS-91-40    | S      | NA       | PVE | SVOC     | 603    | Nitrophenyl Alcohol                         | 4      | ug/g          |
| RPS-91-40    | S      | NA       | PVE | SVOC     | 623    | @ C23 Bicyclic Oxyhydrocarbon               | 2      | ug/g          |
| RPS-91-40    | S      | NA       | PVE | svoc     | 622    | Nitrophenyl Alcohol                         | 2      | ug/g          |
| RPS-91-40    | S      | NA       | PVE | SVOC     | 601    | Aldehyde                                    | 1      | ug/g          |
| RPS-91-40    | S      | NA       | PVE | SVOC     | 602    | Unknown Acid                                | 0.4    | ug/g          |
| RPS-91-40    | S      | NA       | PVE | SVOC     | 608    | Cyclic Alcohol                              | 0.2    | ug/g          |
| RPS-91-49    | s      | NA       | PVE | svoc     | 606    | Nitrophenyl Alcohol                         | 60     | ug/g          |
| RPS-91-49    | S      | NA       | PVE | SVOC     | 655    | Alkene                                      | 50     | ug/g          |
| RPS-91-49    | S      | NA       | PVE | SVOC     | 650    | Aldehyde                                    | 30     | ug/g          |
| RPS-91-49    | s      | NA       | PVE | SVOC     | 670    | Aldehyde                                    | 20     | ug/g          |
| RPS-91-49    | s      | NA       | PVE | SVOC     | 700    | Aldehyde                                    | 10     |               |
| RPS-91-49    | s      | NA       | PVE | svoc     | 677    | Alkane @ C32                                | 10     | ug/g          |
| RPS-91-49    | S      | NA       | PVE | SVOC     | 713    | Alkene                                      | 5      | ug/g          |
| RPS-91-49    | S      | NA       | PVE | svoc     | 678    | Alkene                                      | 5      | ug/g          |
| RPS-91-49    | S      | NA       | PVE | svoc     | 542    | Unknown Acid                                | 4      | ug/g          |
| 91-49        | S      | NA       | PVE | svoc     | 601    | Unknown                                     | 3      | nā/š          |
| 91 – 49      | S      | NA       | PVE | SVOC     | 640    | Unknown Acid                                | 3      | ng/s          |
| 012-91-49    | S      | NA       | PVE | SVOC     | 607    | Hexadecanoic Acid                           | 2      | ug/g          |
| RPS-91-49    | S      | NA       | PVE | SVOC     | 630    | Alkene                                      | 2      | ug/g          |
| RPS-91-49    | S      | NA       | PVE | svoc     | 614    | Alcohoi                                     |        | ug/g          |
| RPS-91-49    | s      | NA       | PVE | SVOC     | 628    | Aldehyde                                    | 1      | ug/g          |
| RPS-91-49    | S      | NA       | PVE | svoc     | 637    | Aldehyde                                    | 1<br>1 | ug/g          |
| RPS-91-49    | S      | NA       | PVE | svoc     | 632    | Aldehyde                                    | 1      | ug/g          |
| RPS-91-49    | S      | NA       | PVE | svoc     | 616    | Octadecanoic Acid                           | 1      | ug/g          |
| RPS-91-49    | S      | NA       | PVE | svoc     | 603    | Unsaturated Hydrocarbon                     | 1      | ug/g          |
| RPS-91-49    | S      | NA       | PVE | svoc     | 592    | Unknown Oxyhydrocarbon                      |        | n6/8          |
| RPS-91-49    | S      | NA.      | PVE | svoc     | 601    | Unknown Oxyhydrocarbon                      | 0.8    | ug/g          |
| RPS-91-49    | S      | NA<br>NA | PVE | svoc     | 602    | * ·                                         | 0.6    | nā\š          |
| RPS-91-49    | S      | NA<br>NA | PVE | SVOC     | 623    | Unsaturated Hydrocarbon                     | 0.6    | π <b>δ</b> /δ |
| 110 71 47    | 3      | 170      |     | 3400     | . 023  | Aldehyde                                    | 0.5    | ug/g          |
| RPS-91-57    | S      | 0        | PTU | svoc     | 649    | Unsaturated Hydrocarbon                     | 8      | ug/g          |
| RPS-91-57    | S      | 0        | PTU | SVOC     | 665    | @ C31 Alkane                                | 3      | ug/g          |
| RPS-91-57    | S      | 0        | PTU | SVOC     | 645    | Unknown Aldehyde                            | 3      | ug/g          |
| RPS-91-57    | S      | 0        | PTU | SVOC     | 606    | Unknown Acid                                | 2      | ug/g          |
| RPS-91-57    | S      | 0        | PTU | SVOC     | 606    | Unknown cyclic compound                     | 1      | ug/g          |
| RPS-91-57    | S      | 0        | PTU | SVOC     | 629    | Unsaturated Hydrocarbon                     | 1      | ug/g          |
| RPS-91-57    | S      | 0        | PTU | SVOC     | 638    | Unsaturated Hydrocarbon                     | 1      | na/s          |
| RPS-91-57    | S      | 0        | PTU | SVOC     | 520    | Unknown Oxy Hydrocarbon                     | 1      | ug/g          |
| RPS-91-57    | S      | 0        | PTU | svoc     | 531    | C4 Oxirane                                  | 0.9    | ug/g          |
| RPS-91-57    | S      | 0        | PTU | svoc     | 605    | Dihydrobenzopyranone                        | 0.7    | nā/š          |
| RPS-91-57    | S      | 0        | PTU | SVOC     | 628    | Phosphoric Acid, ethyl hexyl diphenyl ester | 0.6    | ng/g          |
| PSS-91-57    | S      | 0        | PTU | svoc     | 606    | Hexadecanoic Acid                           | 0.5    | n6/8          |
| -91-02       | sw     | 0        | PVN | svoc     | 620    | Nitro - Oxy Aromatic                        | 9.5    | ug/l          |
|              |        |          |     |          |        |                                             |        |               |

|              |            |           | DI ID CENT | AKMY AMMUN   |        |                                     |          |     |
|--------------|------------|-----------|------------|--------------|--------|-------------------------------------|----------|-----|
|              | SAMPLE     | DEPTH     |            | COMPOUNI     |        | NAME OF BEST                        |          | 4 1 |
| SITE ID      | ROUND      | (feet)    | LOT        | CLASS        | UNKXXX | MATCH COMPOUND                      | CONC.    | UN  |
| NAN-81-04C   | R2         | NA        | VJC        | voc          | 256    | 1 - Tetracosanol                    | 3        | ug  |
| NAN-81-04C   | R2         | NA        | VJC        | voc          | 234    | Cyclopentanol, 2 - methyl -         | 2        | uį  |
| OLEUM PLANT  | OLEUM PI   | LANT PONI | D/ BALLIST | 1CS POND     |        |                                     |          |     |
| BPS-91-04    | SD         | 0         | PYK        | voc          | 012    | Unknown Hydrocarbon                 | 0.9      | ug  |
|              |            |           |            |              |        | 0.048.48                            |          |     |
| BPS-91-04    | SD         | 0         | PXX        | svoc         | 593    | @ C17 Alkane                        | 3        | U   |
| BPS-91-04    | SD         | 0         | PXX        | svoc         | 645    | Aldehyde                            | 2        | U)  |
| BPS-91-04    | SD         | 0         | PXX        | svoc         | 638    | @ C27 Alkane                        | 2        | u   |
| BPS-91-04    | SD         | 0         | PXX        | svoc         | 630    | @ C25 Alkane                        | 2        | u   |
| BPS-91-04    | SD         | 0         | PXX        | svoc         | 594    | @ C17 Cyclic Alkane                 | 1        | u   |
| BPS-91-04    | SD         | 0         | PXX        | SVOC         | 606    | Hexadecanoic Acid                   | 1        | u   |
| BPS-91-04    | SD         | 0         | PXX        | svoc         | 598    | Hexathiepane                        | 1<br>0.8 | u   |
| BPS-91-04    | SD         | 0         | PXX        | SVOC         | 622    | @ C23 Alkane                        |          | u   |
| BPS-91-04    | SD         | 0         | PXX        | SVOC         | 563    | Thio Hydrocarbon                    | 0.7      | u   |
| OLD ACID ARE | LA/ OLD FU | EL OIL TA | NK AREA    |              |        |                                     |          |     |
| FTB-91-01    | SB         | 7         | QKG        | voc          | 198    | Unknown decahydronaphthalene isomer | 2        | u   |
| FTB-91-01    | SB         | 7         | QKG        | voc          | 177    | Unknown Cyclic Hydrocarbon          | 2        | _ ' |
| FTB-91-01    | SB         | 7         | QKG        | VOC          | 169    | Unknown Cyclic Hydrocarbon          | 1        |     |
| FTB-91-01    | SB         | 7         | QKG        | VOC          | 181    | Unknown Cyclic Hydrocarbon          | 1        |     |
| FTB-91-01    | SB         | 7         | QKG        | voc          | 186    | Unknown Cyclic Hydrocarbon          | 0.6      | u   |
| FTB-91-01    | SB         | 2         | QKT        | svoc         | 594    | Unknown Long Chain Oxy H.C.         | 10       | u   |
| FTB-91-01    | SB         | 2         | QKT        | SVOC         | 591    | Unknown Long Chain Unsaturated H.C. | 8        | U   |
| FTB-91-01    | SB         | 2         | QKT        | SVOC         | 599    | @ C18 Alkane                        | 7        | ·   |
| FTB-91-01    | SB         | 2         | ОКТ        | svoc         | 580    | @ C16 Alkane                        | 4        | 1   |
| FTB-91-01    | SB         | 2         | OKT        | SVOC         | 593    | @ C17 Alkene                        | 3        | •   |
| FTB-91-01    | SB         | 2         | QKT        | svoc         | 591    | @ C18 Alkene                        | 3        | 1   |
| FTB-91-01    | SB         | 2         | QKT        | SVOC         | 606    | Hexadecanoic Acid                   | 3        | 1   |
| FTB-91-01    | SB         | 2         | QKT        | SVOC         | 598    | Unknown Cyclic H.C.                 | 3        | ,   |
| FTB-91-01    | SB         | 2         | QKT        | svoc         | 586    | Unknown Oxy H.C.                    | 3        |     |
| FTB-91-01    | SB         | 2         | QKT        | SVOC         | 600    | Unknown Polycyclic H.C.             | 3        | 1   |
| FTB-91-01    | SB         | 2         | QKT        | svoc         | 596    | Unknown Long Chain Oxy H.C.         | 3        |     |
| FTB-91-01    | SB         | 2         | QKT        | svoc         | 601    | Unknown Long Chain Oxy H.C.         | 3        | 1   |
| FTB-91-01    | SB         | 2         | QKT        | svoc         | 588    | Unknown Cyclic H.C.                 | 3        |     |
|              | SB         | 2         | QKT        | svoc         | 597    | Undecyl Cyclohexane                 | 2        |     |
| FTB-91-01    |            |           | QKT        | svoc         | 606    | Unknown Unsaturated Long Chain H.C. | 2        |     |
| FTB-91-01    | SB         | 2         | QKT        | svoc         | 574    | @ C14 Alkane                        | 2        |     |
| FTB-91-01    | SB         | 2         |            | SVOC         | 590    | Unknown Cyclic H.C.                 | 2        |     |
| FTB-91-01    | SB         | 2         | QKT        |              | 582    | Pentadecane                         | 2        |     |
| FTB-91-01    | SB         | 2         | OKT        | SVOC<br>SVOC | 608    | Eicosane                            | 2        |     |
| FTB-91-01    | SB         | 2         | OKT        |              | 585    | Unknown Long Chain H.C.             | 2        |     |
| FTB-91-01    | SB         | 2         | QKT        | SVOC         |        | Dodecył Cyclohaexane                | 2        |     |
| FTB-91-01    | SB         | 2         | QKT        | SVOC         | 602    | Unknown Polycyclic H.C.             | 2        |     |
| FTB-91-01    | SB         | 2         | QKT        | SVOC         | 607    | * =                                 | 2.4      |     |
| FTB-91-01    | SB         | 2         | OKT        | svoc         | 596    | Unknown Long Chain H.C.             | <b>1</b> |     |
| FTB-91-01    | SB         | 2         | QKT        | SVOC         | 593    | Heptadecane                         | 2        |     |
| FTB-91-01    | SB         | 2         | QKT        | SVOC         | 602    | Unknown Long Chain H.C.             | 2        | _   |

|              |            |         | BADGERA | ARMII AMMON | ONTEAN |                                      |      |              |
|--------------|------------|---------|---------|-------------|--------|--------------------------------------|------|--------------|
|              | SAMPLE     | DEPTH   |         | COMPOUNI    | )      | NAME OF BEST                         |      |              |
| SITE ID      | ROUND      | (feet)  | LOT     | CLASS       | UNKXXX | MATCH COMPOUND                       | CONC | <u>UNITS</u> |
| FTB-91-01    | SB         | 2       | OKT     | svoc        | 604    | Unknown Long Chain Oxy H.C.          | 2    | na la        |
| FTB-91-01    | SB         | 2       | OKT     | SVOC        | 596    | @ C18 Alkane                         | 2    | ug/g<br>ug/g |
| FTB-91-01    | SB         | 2       | OKT     | svoc        | 582    | Unknown Long Chain Oxy H.C.          | 2    | ug/g         |
| FTB-91-01    | SB         | 2       | OKT     | SVOC        | 588    | Hexadecane                           | 2    |              |
| FTB-91-01    | SB         | 2       | OKT     | SVOC        | 603    | Unknown Polycyclic H.C.              | 2    | ug/g<br>ug/g |
| FTB-91-01    | SB         | 2       | OKT     | SVOC        | 592    | Unknown Cyclohexane Derivative       | 1    | ug/g         |
| FTB-91-01    | SB         | 2       | OKT     | SVOC        | 591    | C18 Alkane                           | 1    | ug/g         |
| FTB-91-01    | SB         | 2       | QKT     | SVOC        | 587    | Unknown Cyclic H.C.                  | 1    | ug/g         |
| FTB-91-01    | SB         | 2       | QKT     | SVOC        | 582    | Unknown Long Chain Oxy H.C.          | i    | ₩₽/B<br>ug/g |
| FTB-91-01    | SB         | 2       | QKT     | SVOC        | 605    | @ C19 Alkene                         | 1    | ug/g         |
| FTB-91-01    | SB         | 2       | OKT     | SVOC        | 600    | Unknown Cyclic H.C.                  | 1    | ug/g         |
| FTB-91-01    | SB         | 2       | OKT     | svoc        | 598    | @ C18 Alkene                         | 1    | ug/g         |
| FTB-91-01    | SB         | 2       | OKT     | svoc        | 598    | Octadecane                           | 1    | ug/g         |
| FTB-91-01    | SB         | 2       | OKT     | svoc        | 597    | @ C17 Alkane                         | 1    | ug/g         |
| FTB-91-01    | SB         | 2       | OKT     | svoc        | 594    | Unknown Polycyclic Oxy H.C.          | 1    | ug/g         |
| FTB-91-01    | SB         | 2       | QKT     | svoc        | 585    | @ C16 Alkane                         | 1    | ug/g         |
| FTB-91-01    | SB         | 2       | OKT     | SVOC        | 602    | @ C20 Alkene                         | 1    | n8\8         |
| FTB-91-01    | SB         | 2       | OKT     | svoc        | 589    | Unknown Long Chain H.C.              | 0.9  | ug/g         |
| FTB-91-01    | SB         | 2       | OKT     | svoc        | 595    | Unknown Long Chain Oxy H.C.          | 0.9  | ug/g         |
| FTB-91-01    | SB         | 2       | OKT     | svoc        | 603    | Nonadecane                           | 0.9  | ug/g         |
| FTB-91-01    | SB         | 2       | OKT     | SVOC        | 604    | @ C19 Alkene                         | 0.9  | ug/g         |
| B-91-01      | SB         | 2       | OKT     | svoc        | 603    | @ C19 Alkane                         | 0.8  | ug/g         |
| -91-01       | SB         | 2       | QKT     | SVOC        | 610    | Unknown Long Chain H.C.              | 0.8  | n8/8         |
| 3-91-01      | SB         | 2       | QKT     | svoc        | 601    | @ C19 Alkane                         | 0.8  | ug/g         |
| FTB-91-01    | SB         | 2       | QKT     | . svoc      | 609    | Unknown Long Chain Unsaturated H.C.  | 0.8  | ug/g         |
| FTB-91-01    | SB         | 2       | QKT     | svoc        | 613    | Unknown Long Chain Unsaturated H.C.  | 0.7  | ug/g         |
| FTB-91-01    | SB         | 2       | QKT     | svoc        | 587    | C16 Alkane                           | 0.7  | ug/g         |
| FTB-91-01    | SB         | 2       | QKT     | svoc        | 589    | Unknown Cyclic H.C.                  | 0.6  | ug/g         |
| FTB-91-01    | SB         | 2       | QKT     | svoc        | 607    | Unknown Long Chain H.C.              | 0.6  | ug/g         |
| FTB-91-01    | SB         | 2       | QKT     | SVOC        | 603    | Polycyclic H.C.                      | 0.6  | ug/g         |
| FTB-91-01    | SB         | 2       | QKT     | SVOC        | 594    | @ C17 Alkane                         | 0.3  | ug/g         |
| S1126        | R2         | NA      | VID     | voc         | 219    | Heptane, 1,1'- oxybis -              | 4    | ug/l         |
| OFF-POST ARE | EA SOUTH C | OF BAAP |         |             |        |                                      |      |              |
| PBM-90-02D   | RI         | NA      | SII     | svoc        | 547    | 2 – Pyrrolidinone, 1 – methyl        | 400  | ug/l         |
| PBM-90-02D   | R1         | NA      | SII     | svoc        | 543    | 1.3 - Cyclopentanedione, 2 - Chloro- | 30   | ug/l         |
| PBM-90-02D   | R1         | NA      | SII     | svoc        | 532    | Phenol, 2-Fluoro                     | 20   | ug/l         |
| PBM-90-02D   | R1         | NA      | SII     | SVOC        | 572    | 1(3H) – Isobenzofuranone             | 7    | ug/l         |
|              |            |         | <b></b> | 2102        | 645    | O. D. Liferen A. market              | ***  |              |
| SWN-91-03D   | R1         | NA      | SIM     | svoc        | 547    | 2-Pyrrolidinone, 1-methyl            | 500  | u§∕l         |
| SWN-91-03D   | Ri         | NA      | SIM     | svoc        | 543    | 1,3 Cyclopentanedione                | 30   | ug/l         |
| SWN-91-03D   | Ri         | NA      | SIM     | SVOC        | 532    | Phenol, 2-Fluoro-                    | 30   | ug/l         |
| SWN-91-03D   | Ri         | NA      | SIM     | svoc        | 572    | 1(3H)—kobenzo furanone               | 20   | ug/l         |
| SWN-91-03D   | RI         | NA      | SIM     | svoc        | 552    | Hexanoic Acid, 2-Ethyl               | 5    | ug/l         |
| SWN-91-01D   | R2         | NA      | HLA     | voc         | 226    | 2 – Pentadecyn – 1 – ol              | 3    | ug/l         |
| -91-03D      | R2         | NA      | SJI     | svoc        | - 597  | Ethanedioyt dichloride               | 40   | ns/J         |

# REMEDIAL INVESTIGATION BADGER ARMY AMMUNITION PLANT

| SITE ID    | SAMPLE<br>ROUND | DEPTH<br>((cet) | COMPOUND |       |        | NAME OF BEST                           |       |      |  |
|------------|-----------------|-----------------|----------|-------|--------|----------------------------------------|-------|------|--|
|            |                 |                 | LOT      | CLASS | UNKXXX | MATCH COMPOUND                         | CONC. | UNIT |  |
| SWN-91-03D | R2              | NA              | SJI      | svoc  | 552    | 2-Pyrrolidinone, 1-methyl-             | 6     | ug/l |  |
| SWN-91-03D | R2              | NA              | SJI      | SVOC  | 562    | Ethanol, 1-(2-butoxyethoxy)-           | 4     | ug/i |  |
| SWN-91-03D | R2              | NA              | SJI      | SVOC  | 613    | Propanic Acid, 2-methyl-, 2.2-dimethyl | 4     | ug/l |  |
| SWN-91∸03E | R2              | NA              | SJI      | SVOC  | 552    | 2-Pyrrolidinone, 1-methyl              | 100   | ug/l |  |
| SWN-91-03E | R2              | NA              | SJI      | svoc  | 597    | Ethanol, 2-chloro-, phosphate (3:1)    | 20    | ug/l |  |

Notes:

S - Surface soil sample. (ug/g)

SB - Subsurface soil sample. (ug/g)

SD - Sediment sample. (ug/g)

SW - Surface water sample. (ug/l)

R1 - Round One (Nov./Dec. 1991) groundwater sample. (ug/l)

R2 - Round Two (April/May 1992) groundwater sample. (ug/l)

NA - Not Applicable

# Appendix L.5

**USATHAMA-approved Laboratory Control Charts** 

W0039213LAPP 6853-12



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5401

October 15, 1991



Installation Restoration Division

Ms. Mimi Uhlfelder EA Laboratories, Inc. 15 Loveton Circle Sparks, Maryland 21152

Dear Ms. Uhlfelder:

The control charts submitted with your letter dated October 2, 1991, for work done at Badger Army Ammunition Plant, in support of contract number DAAA15-91-D-0008, have been reviewed. The following comments apply to this submission:

- a. Method UM19 Lot CXY is acceptable.
- b. Method LM26 Lot CYG is acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc.

Questions or comments should be addressed to Ms. Jennifer J. Cook at (301) 671-1574/3348.

Sincerely,

James J. McKenna

Contracting Officer's Representative

Copy Furnished:

Mr. Jeffrey Pickett, AAB Environmental, Inc., 261 Commercial Street, P.O. Box 7050, Portland, Maine 04112



## DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010-5401



October 29, 1991

Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

Control charts submitted with your letter dated October 4, 1991, for work done in support of the installations listed at the enclosure, under contracts DAAA15-87-D-0017, DAAA15-90-D-0006, DAAA15-90-D-0016, and DAAA15-91-D-0008, have been reviewed.

The following comments apply to this review:

- a. Method B9 Lots PKY and PNT are acceptable.
- b. Method LW23 Lot PRQ is acceptable.
- c. Method JS12 Lots PLL and PNW are acceptable.
- d. Method JD21 Lot PNV is acceptable.
- e. Method Y9 Lot PNX is acceptable.
- f. Method LW27 Lots PSL and PRO are acceptable.
- g. Method JD20 Lot PNU is acceptable.
- h. Method LM25 Lot PRM is acceptable.
- i. Method TT09 Lots PPG, PQF, PTA, and PRD are acceptable.
- j. Method TF34 Lot PSZ is acceptable.
- k. Method AY8 Lots PRX and PSE are acceptable.
- 1. Method AW8A Lots PRU and PUU are acceptable.
- m. Method TU02 Lot PVL is acceptable.
- n. Method P8 The upward trend seems indicative of degrading calibration standards, which should be checked. Lot PSF is acceptable.
  - o. Method SS12 Lot PSU is acceptable.

- p. Method SD18 Lot PSX is acceptable.
- q. Method CC8 Lots POQ and PSV are acceptable. Lot PSV was not identified on the cover letter but was identified on the method summary as a lot requiring review.
- Method UH11 Lot POZ is acceptable. As stated previously, the laboratory needs to ensure that the calibration solutions used have not degraded giving unusually high spike recoveries.
  - s. Method UN01 - Lots PRJ, PTC, PTR, and PPN are acceptable.
  - t. Method UH20 Lot PSS is acceptable.
  - u. Method SD25 Lot PSY is acceptable.
  - v. Method UM25 Lot PSR is acceptable.
  - w. Method AV8 Lot PUS is acceptable.
  - x. Method N8 Lots PUT, PSB, and PVK are acceptable.
  - y. Method UM21 Lots PRA and PSQ are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments should be addressed to Mr. Douglas L. Stevenson at (301) 671-1569/3348.

Sincerely,

Darlene F. Bader

Contracting Officer's

Representative

DAAA15-87-D-0017

Randall J.

Contracting Officer's

Representative

DAAA15-90-D-0016

Eric D. haufman

Bric D. Kauffman

Contracting Officer's

Representative DAAA15-90-D-0006

James L. McKenna Contracting Officer's Representative

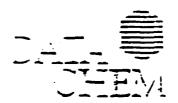
DAAA15-91-D-0008



#### Copies Furnished (with enclosure):

- Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Building 111, Commerce City, Colorado 80022-2180
- Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177
- Dr. Marilyn Ripin, JAYCOR, 1901 North Beauregard Street, Alexandria, Virginia 22311
- Ms. Carol Sweet, Metcalf and Eddy, Inc., 1201 Peachtree Street, N.E., 400 Colony Square, Suite 1101, Atlanta, Georgia 30361
- Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112 (50)
- Mr. Steve Brown. EA Laboratories, Inc., 15 Loveton Circle, Sparks, Maryland 21152





Michiel 11/4

October 4, 1991 Refer to: 91A194

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0047, 48, 49, 50, 51 (CLASS)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method #  | Installation | Lot #    | Contractor                 |
|-----------|--------------|----------|----------------------------|
| B9        | IA           | PKY, PNT | <u>Jay</u> cor             |
| LW23      | BA           | PRQ      | (E.A.) ENGINEERING         |
| J512      | IA           | PLL, PNW | JAYCOR                     |
| JD21      | IA           | PNV      | JAYCOR                     |
| <b>Y9</b> | IA           | PNX      | <u>JAY</u> COR             |
| LW27      | BA           | PSL, PRO | E.A. ENGINEERING           |
| JD20      | IA           | PNU      | JAYCOR                     |
| LM25      | BA ·         | PRM      | E.A) ENGINEERING           |
| TT09      | RK           | PPG, PQF | CLASS-BASIN A              |
|           | LX           | PTA      | METCALF & EDDY             |
|           | PI           | PRD      | JAYCOR                     |
| TF34      | LX           | PSZ      | METCALF & EDDY             |
| AY8       | RK           | PRX      | CLASS-NORTH BOUNDARY       |
|           | RK           | PRX,PSE  | CLASS-NORTHWEST BOUNDARY   |
|           | RK           | PRX      | CLASS-SEWAGE TREATMENT     |
| A8WA      | RK           | PRU      | CLASS-NORTH BOUNDARY       |
|           | RK           | PRU      | CLASS-NORTHWEST BOUNDARY   |
|           | RK           | PRU      | CLASS-SEWAGE TREATMENT     |
|           | RK           | PUU      | CLASS-BASIN A              |
| TU02      | RK           | PVL      | CLASS-NORTH BOUNDARY       |
| P8        | RK           | PSF      | . CLASS-NORTHWEST BOUNDARY |
| SS12      | LX           | PSU      | METCALF & EDDY             |
| SD18      | LX           | PSX      | METCALF & EDDY             |
| CC8       | RK           | POQ      | CLASS-SEWAGE TREATMENT     |
|           | RK           | POQ      | CLASS-BASIN A              |

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CALT LAKE OFFCE



October 4,1991 Page 2

| UH11       | RK | POZ           | CLASS-BASIN A            |
|------------|----|---------------|--------------------------|
| UN01       | RK | PPN           | CLASS-SEWAGE TREATMENT   |
|            | RK | PRJ, PTC, PTR | HARDING-LAWSON           |
| UH20       | LX | PSS           | METCALF & EDDY           |
| SD25       | LX | PSY           | METCALF & EDDY           |
| UM25       | LX | PSR           | METCALF & EDDY           |
| 8VA        | RK | PUS           | CLASS-BASIN A            |
| <b>8</b> и | RK | PUT           | CLASS-BASIN A            |
|            | RK | PVK           | CLASS-CERCLA             |
|            | RK | PVK           | CLASS-NORTH BOUNDARY     |
|            | RK | PVK, PSB      | CLASS-NORTHWEST BOUNDARY |
| UM21       | PI | PRA           | JAYCOR                   |
|            | LX | PSQ           | METCALF & EDDY           |

for Ron Mander

DataChem Laboratories has no corrective action to report.

Sincerely,

Ron Marsden

Quality Assurance Section Manager

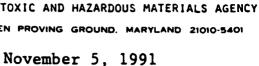
cc: D. Gayer

L. Eggenberger T. Mikesell

RM/cwe



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010-5401





Installation Restoration Division

Ms. Mimi Uhlfelder EA Laboratories 15 Loveton Circle Sparks, Maryland 21152

Dear Ms. Uhlfelder:

The control charts which you submitted with your letter of October 21, 1991, have been reviewed. The control charts are for work done in support of Badger Army Ammunition Plant under contract DAAA15-91-D-0008. The lots submitted are listed below:

- a. Method UM19 Lot CZA is acceptable. This Agency acknowledges the problems EA Laboratories is having with the control chart program. Mr. Leslie Brown, of this Agency, is always more than willing to work with members of your staff in an effort to eliminate any problems being experienced with this Agency's software. Mr. Gary Smith, EA Laboratories, has recently been in contact with this Agency and is expected to travel to this Agency in an effort to eliminate current control chart problems.
- b. Method LM26 Lots CYF, CYM, CYP, CYO, CYV, CYW, CYX, and CZE are acceptable.

All future submissions of control charts from EA Laboratories will be required in two forms. Submissions should continue in hard copy form. However, the appropriate software files should be attached for this Agency to review using the current version of the control chart program.

Potomac Research, Inc., has been advised that the in-control lots (as noted above) are cleared for additional processing.

Questions concerning the review of the methods should be directed to Mr. Robert Murray at (301) 671-1571/3348.

Sincerely,

James J. McKenna

Contracting Officer's

Representative

#### Copy Furnished:

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, P.O. Box 7050, Portland, Maine 04112



## DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401

November 7, 1991

Installation Restoration Division



Mr. Stephen Spellenberg Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Spellenberg:

The control charts submitted with letter dated September 27, 1991, for work done at Tooele South Army Depot, Fort Devens, Picatinny Arsenal, Lone Star and Badger Army Ammunition Plants, Cameron Station, and Natick, under several contracts, have been reviewed.

The following comments apply to this submission:

- a. Method LW26 Lot EEN is acceptable.
- b. Method UW26 Lots EEM, EEO, and EEP are acceptable.
- c. Method LW29 Lot LAE is acceptable.
- d. Method UW31 Lot LAD is acceptable.
- e. Method TT08 Lot IDU is acceptable.
- f. Method JS15 Lot MDX is acceptable.
- g. Method "39" Lot ZQA. Data run under method "99" are not reviewed by this Agency.
  - h. Method LM15 Lot SGI is acceptable.
  - i. Method LM16 Lot VGB is acceptable.
  - j. Method UM17 Lot VFZ is acceptable.

All data represented in this submission should be transferred to the U.S. Army Toxic and Hazardous Materials Agency's Installation Restoration Data Management Information System.

Questions or comments should be addressed to Mr. Robert D. Murray at (301) 671-1571/3348.

Sincerely,

Contracting Officer's

Representative DAAA15-91-D-0008

James D. Daniel

Contracting Officer's

Representative DAAA15-90-D-0012

Contracting Officer's Representative DAAA15-90-D-0007

Rosemary Austin Contracting Officer's

Representative DAAA15-90-D-0010

Copy Furnished:

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112

Mr. Tom Dabrowski, Chem-Nuclear Remediation, Inc., 743 Horizon Court, Suite 200, Grand Junction, Colorado 81506

Mr. Lawrence Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 20850

Ms. Marcia Meredith, Ecology and Environmental, Inc., 368 Pleasantview Drive, Lancaster, New York 14086

October 4, 1991

| Lot | Delivery<br>Order | Installation | Method  | Analysis            | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|---------------------|---------------------|----------------------|------------------------------|
| DDE | E&E               | DV           | JB03    | Mercury Soil        | 20-Sep-91           | 34                   |                              |
| DDF | E&E               | DV           | SB03    | Mercury Water       | 19-Sep-91           | 23                   |                              |
| DDG | ABB               | BA           | SB03    | Mercury Water       | 25-Sep-91           | 1                    |                              |
| DDH | 45                | LS -         | JB03    | Mercury Soil        | 24-Sep-91           | 15                   |                              |
| DDH | 48                | NK -         | JB03    | Mercury Soil        | 24-Sep-91           | 2                    |                              |
| DDH | E&E               | DV           | JB03    | Mercury Soil        | 24-Sep-91           | 12                   |                              |
| FJM | ABB               | BA           | SD24-AS | Graphite Furnac     | 25-Sep-91           | 1                    |                              |
| FJN | ABB               | BA           | SD24-SE | Graphite Furnac     | 24-Sep-91           | 1                    |                              |
| FJO | ABB               | BA           | SD24-PB | Graphite Furnac     | 23-Sep-91           | 1                    |                              |
| FJP | ABB               | BA           | SD24-AG | Graphite Furnac     | 26-Sep-91           | 1                    |                              |
| FJQ | ABB               | BA           | 99-TL   | Graphite Furnac     | 23-Sep-91           | 1                    |                              |
| GAA | ABB               | BA           | UN06    | Nitrosamines GC     | 24-Sep-91           | 1                    |                              |
| IDG | E&E               | DV           | TT08    | Ion Chrom Water     | 06-Aug-91           | 14                   | 16-Aug-91                    |
| LAE | WCFS              | CM           | LW29    | Herbicides/Soil     | 18-Sep-91           | 7                    | 27-Sep-91                    |
| MEB | ABB               | BA           | SS16    | ICP Water           | 25-Sep-91           | 1                    |                              |
| SGQ | E&E               | DV           | LM15    | Semivoas GCMS Soil  | 28-Aug-91           | 5                    |                              |
| SGR | E&E               | DV           | UM16    | Semivoas GCMS Water | 30-Aug-91           | 8                    |                              |
| GS  | E&E               | DV           | UM16    | Semivoas GCMS Water | 28-Aug-91           | 7                    |                              |
| iT  | E&E               | DV           | UM16    | Semivoas GCMS Water | 04-Sep-91           | 8                    |                              |
| SGU | E&E               | DV           | UM16    | Semivoas GCMS Water | 04-Sep-91           | 4                    |                              |
| SGV | E&E               | DV           | UM16    | Semivoas GCMS Water | 05-Sep-91           | 6                    |                              |
| VGF | WCFS              | CM           | LM16    | Voas GCMS Soil      | 16-Sep-91           | 10                   |                              |
| ZPG | CNES              | TS -         | 99 40S  | IMPA/FLC2A Soil     | 15-Aug-91           | 16                   | 30-Aug-91                    |
| ZPQ | E&E               | DV           | TF33    | Tot. Kjeldahl N     | 30-Aug-91           | 29                   |                              |
| ZPR | E&E               | DV           | TF32    | Phosphorus Water    | 29-Aug-91           | 29                   |                              |
| ZPW | ABB               | BA           | 00      | TDS,ALKA,HARDNESS   | 23-Sep-91           | 1                    |                              |
| ZPX | ABB               | BA           | 99 47   | NH3                 | 24-Sep-91           | 1                    |                              |
| ZQD | WCFS              | CM /         | 99 29   | Herbicides/Odd      | 01-Oct-91           | 4                    |                              |

<sup>\*</sup> Lots with Previous Weekly Report dates contain ammendments only

ABB Contract Number DAAA15-91-D-008
CNES Contract Number DAAA15-90-D-0007
E&E Contract Number DAAA15-90-0012
WCFS Contract Number DAAA15-90-D-0010



# DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS ABERDEEN PROVING GROUND. MARYLAND 21010-5401 November 12, 1991



Installation Restoration Division

Mr. Stephen P. Spellenberg Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Spellenberg:

The control charts submitted with your letter dated October 4, 1991, for the work done at Tooele Army Depot, Fort Devens, Lone Star and Badger Army Ammunition Plants, Cameron Station, and Natick, under contracts DAAA15-91-D-0008, DAAA15-90-D-0007, DAAA15-90-D-0012, and DAAA15-90-D-0010, have been reviewed. The methods, lots, and installations are at the enclosure.

The following comments apply to this submission:

- a. Method JB03 Lot DDE is not acceptable. Method should be changed to "99." Arthur D. Little, Inc., has had a reoccurring problem with the ability to analyze mercury within holding time. This Agency will suspend the certification of this method if corrective action is not implemented. The laboratory must ultimately be held responsible to accurately inform this Agency of sample capacity for this method.
- b. Method JB03 Lot DDH is acceptable. It appears, again, that the samples in this lot were run toward the end of the 28-day hold time. This Agency needs to be informed if there is a problem with method sample capacity.
  - c. Method SB03 Lot DDF is acceptable.
  - d. Method SD24 Lots FJM, FJN, FJO, and FJP are acceptable.
- e. Method "99" Lot FJQ, "Thallium in water by GFAA," has been received by this Agency.
  - f. Method SS16 Lot MEB is acceptable.

- g. Method LM15 Lot SGQ is acceptable.
- h. Method UM16 Lots SGS, SGR, and SGT are acceptable.
- i. Method TF33 Lot ZPQ is acceptable based on the laboratory's indication that the extremely high recovery for the low spike was based on a double spike procedural error. The low spike recovery for lot ZPQ is approximately double the recovery of CF4.
- j. Method TF32 Lot ZPR is acceptable. Data are considered acceptable since the low spike is in-control and all field samples were reported as LT. The approximately 15 percent drop in the high spike recovery should be investigated by the laboratory.
- k. Method 00 Lot ZPW, "Total Alkalinity, Hardness and Total Dissolved Solids," has been received by this Agency.
- 1. Method "99" Lot ZPX, "Ammonia as Nitrogen," has been received by this Agency.
  - m. Method LM16 Lot VGF is acceptable.
  - n. Method LW29 Lot LAE is acceptable.
- o. Method TT08 Lot IDG is acceptable based on field samples EOD-2 and EOD-7 being moved to lot QAB. Lot QAB will be reported as method "99."
- p. Method "99" Lot ZPG, "IMPA/FC2A by IC," has been received by this Agency.
- q. Method "99" Lot ZQD, "Herbicides by HPLC, biological matrix," has been received by this Agency. The revised detection limits of 5.76 ug/g, 6.23 ug/g, and 3.03 ug/g for 245T, 245TP, and 24D, respectively, have been acknowledged.
  - r. Method UN06 Lot GAA is acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments should be addressed to Mr. Robert D. Murray at (301) 671-1571/3348.

Sincerely,

James J. McKenna Contracting Officer's Representative DAAA15-91-D-0008

James D. Daniel Contracting Officer's Representative DAAA15-90-D-0012 Charles A. Lechner
Contracting Officer's
Representative
DAAA15-90-D-0007

Rosemary Austin Contracting Officer's Representative DAAA15-90-D-0010

Enclosure

Copies Furnished (with enclosure):

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112

Mr. Tom Dabrowski, Chem-Nuclear Remediation, Inc., 743 Horizon Court, Suite 200, Grand Junction, Colorado 81506

Mr. Lawrence Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 20850

Ms. Marcia Meredith, Ecology and Environmental, Inc., 368 Pleasantview Drive, Lancaster, New York 14086



### US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401

November 13, 1991



Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

#### Dear Mr. Marsden:

The control charts which you submitted with your letter dated October 10, 1991, for work done in support of the installations listed at the enclosure, under contracts DAAA15-87-D-0017, DAAA15-90-D-0006, DAAA15-90-D-0016, and DAAA15-91-D-0008, have been reviewed. The following comments apply to this review:

- a. Method KT07 Lot PRN is acceptable.
- b. Method LW23 Lots PSN, PTG, PTW, and PUY are acceptable.
- c. Method JS12 Lots PRR and PTL are acceptable.
- $\nearrow$ d. Method JD21 Lots PRT and PTM are acceptable.
- e. Method Y9 Lot PRS is acceptable.
- √f. Method KF17 Lots PRL and PSO are acceptable.
- $\sim$  g. Method LW27 Lots PSL, PRO, PTE, PTT, and PUO are acceptable.
  - ∠h. Method LM25 Lots PRZ, PVE, PWI, and PTU are acceptable.
  - $\sim$  i. Method LM23 Lots PUP and PUR are acceptable.

\_\_\_\_\_j. Method AX8 - Lots PSW and PQV are acceptable.

imes k. Method AY8 - Lot PVI is acceptable.

×1. Method AW8A - Lots PVJ and PWX are acceptable.

xm. Method AT8 - Lots PSG and PVM are acceptable.

 $\chi$  n. Method UH10 - Lot PTB is acceptable.

10. Method SS12 - Lots PQZ and PSI are acceptable.

4 q. Method CC8 - Lots PQY and PSJ are acceptable.

/r. Method LL8 - Lot PQE is acceptable.

s. Method UW27 - Lot PUF is acceptable.

Method KR8 - Lot PPB is acceptable.

X v. Method SD25 - Lot PQW is acceptable.

X w. Method UM25 - Lot PPO is acceptable.

 $\nearrow$ x. Method AV8 - Lots PWM and PWU are acceptable.

 $\times$ y. Method N8 - Lots PWN and PWV are acceptable.

z. Method UM21 - Lot PKG was not found on the paper submission which accompanied your letter, although the circumstances described in the letter would have led to its acceptance, with the addition of appropriate flagging codes. No other lots were identified for review at this time.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal shoul be transferred to D. P. Associates at the Arsenal.

Questions or comments should be addressed to Mr. Douglas L. Stevenson at (301) 671-1569/3348.

Sincerely,

Darlene F. Bader

Contracting Officer's

Representative DAAA15-87-D-0017

Randall J. Cerar

Contracting Officer's

Representative DAAA15-90-D-0016

Free E Kauffman

Eric D. Kauffman Contracting Officer's Representative DAAA15-90-D-0006

James J. McKenna

Contracting Officer's

Representative DAAA15-91-D-0008

Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180

Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177

Dr. Marilyn Ripin, JAYCOR, 1901 North Beauregard Street, Alexandria, Virginia 22311

Ms. Carol Sweet, Metcalf & Eddy, Inc., 1201 Peachtree Street, N.E., 400 Colony Square, Suite 1101, Atlanta, Georgia 30361

Ms. Deborah Smith, ABB Environmental, 261 Commercial Street, Portland, Maine 04112 V

Mr. Steve Brown, EA Laboratories, 15 Loveton Circle, Sparks, Maryland 21152



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND. MARYLAND 21010-5401

November 25, 1991



Installation Restoration Division

Ms. Mimi Uhlfelder EA Laboratories 15 Loveton Circle Sparks, Maryland 21152

Dear Ms. Uhlfelder:

The control charts which you submitted with your letter of October 30, 1991, have been reviewed. The control charts are for work done in support of Badger Army Ammunition Plant under contract DAAA15-91-D-0008. The lots submitted are listed below:

- Method LM26 - Lots CZL, CZK, CZZ, DAA, DAB, DAD, DAH, and DAP are acceptable.

All future submissions of control charts from EA Laboratories will be required in two forms. Submissions should continue in hard copy form. However, the appropriate software files should be attached for this Agency to review using the current version of the control chart program.

Potomac Research, Inc., has been advised that the in-control lots (as noted above) are cleared for additional processing.

Questions concerning the review of the methods should be directed to Mr. Robert Murray at (301) 671-1571/3348.

Sincerely,

James J. McKenna

Contracting Officer's

Representative

Copy Furnished:

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, P.O. Box 7050, Portland, Maine 04112



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5401



2 6 NOV 1991

Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

The control charts submitted with your letter dated November 8, 1991, for work done under contract numbers DAAA15-87-D-0017, DAAA15-90-D-0009, DAAA15-90-D-0008, and DAAA15-91-D-0008, in support of installations included at the enclosure, have been reviewed.

The following comments apply to this submission:

- a. Method KT07 Lots QFE, QFP, and QGH are acceptable. As discussed in a telephone conversation between Ms. Peterson, DataChem Laboratories, and Ms. Cook, this Agency, on November 14, 1991, lot QFP was mistakenly entered into the control chart program as lot QEP. DataChem Laboratories stated that the error would be corrected in the next control chart submission.
- b. Method KF15 Based on the comment that no cyanide was found in the field samples, lots QCV and QBO are acceptable. DataChem Laboratories should continue investigating the cause of the low recoveries for the high spikes.
  - c. Method LW23 Lots QDQ and QDD are acceptable.
  - d. Method JS12 Lots PWG and PYZ are acceptable.
  - e. Method Y9 Lots RAO, QDW, and QBN are acceptable.
  - f. Method JD21 Lots PWD and PXL are acceptable.
- g. Method KF17 Lots QAB, QDM, RAM, QDZ, QED, QEL, and QFF are acceptable.
  - h. Method LN08 Lot PSM is acceptable.

- i. Method LH17 Lots QBG and QDB are acceptable. Lot PZG is acceptable. However, the analytes PCB016 and PCB260 in lot PZG should be reported separately as method "99."
- j. Method JD20 Based on the comments that no selenium was found in the field samples, lot PXD is acceptable. DataChem Laboratories should investigate the cause of the poor recovery of the high spike.
  - k. Method LM25 Lot QBJ is acceptable.
- Method LM23 Lots PYK, QEZ, QFG, QGE, QGF, QGO, QCS, QHL, QIG, QKG, QMF, and QNH are acceptable.
  - m. Method TT09 Lot QAZ is acceptable.
  - n. Method AX8 Lots QLH and PYB are acceptable.
  - o. Method TF34 Lot QHR is acceptable.
  - p. Method AY8 Lots QKQ and QJR are acceptable.
  - q. Method AT8 Lots QEV and QIP are acceptable.
  - r. Method UW25 Lot QKY is acceptable.
- s. Method P8 Lot QEQ is acceptable. DataChem Laboratories should investigate the cause for the high recoveries of the high spikes for all three control analytes. The spiking solution and spiking technique should be checked.
  - t. Method SS12 Lots PVT, PXT, and QLJ are acceptable.
  - u. Method SD18 Lot QLG is acceptable.
  - v. Method CC8 Lots PYU and QLI are acceptable.
- w. Method UH11 This Agency agrees that lot QAW is unacceptable and should be reported as method "99." Lot QEU is acceptable.
  - x. Method UN01 Lots QIN and QEP are acceptable.
- y. Method KK8 Lots PRV, PSD, PVH, PXV, and QKR are acceptable.
  - z. Method AAA8 Lots QKP, QIJ, and QJP are acceptable.
  - aa. Method UH20 Lot QBC is acceptable.
  - bb. Method SD25 Lot QLF is acceptable.

- cc. Method AV8 Lots QIR and QKU are acceptable.
- dd. Method N8 Lots QIS and QKV are acceptable.
- ee. Method UM21 Lots QHS, QMA, RAA, and QLU are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data for Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments concerning this review should be directed to Ms. Jennifer Cook at (410) 671-1574.

Sincerely,

Conrad L. Swann

Contracting Officer's

Representative

DAAA15-90-D-0009

Darlene F. Bader

Contracting Officer's

Representative DAAA15-87-D-0017

muladd. Leth

Contracting Officer's Representative

DAAA15-91-D-0008

Dominique K. Edwards
Contracting Officer's
Representative
DAAA15-90-D-0008

Enclosure

Copies Furnished (with enclosure):

Ms. Gail DeRuzzo, Roy F. Weston, Inc., 208 Welsh Pool Road, Lionville, Pennsylvania 19341-1313

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado, 80022-2180

Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177

Mr. Steve Brown, EA Laboratories, 19 Loveton Circle, Sparks, Maryland 21152

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112

Mr. Bruce King, Engineering Science, Inc., 75 North Fair Oaks Avenue, Pasadena, California 91103



November 8, 1991 Refer to: 91A228

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0047,48,49,51(CLASS)

DAAA15-87-0017/0061,62,63 (CLASS)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method #  | <u>Installation</u> | Lot #           | Contractor       |
|-----------|---------------------|-----------------|------------------|
| KT07      | BA                  | QFE,QFP,QGH     | E.A. ENGINEERING |
| KF15      | AM                  | QCV,QBO         | WESTON           |
| LW23      | BA                  | QDQ,QDD         | E.A. ENGINEERING |
| J\$12     | BA                  | PWG, PYZ        | E.A. ENGINEERING |
| JD21      | ВА                  | PWD, PXL        | E.A. ENGINEERING |
| <b>Y9</b> | BA                  | RAO,QDW         | E.A. ENGINEERING |
|           | MA                  | QBN             | WESTON           |
| KF17      | BA                  | QAB,QDM,RAM,QDZ | E.A. ENGINEERING |
|           |                     | QED,QEL,QFF     |                  |
| LN08      | BA                  | PSM             | E.A. ENGINEERING |
| LH17      | MA                  | PZG,QBG,QDB     | WESTON           |
| JD20      | BA                  | PXD             | E.A. ENGINEERING |
| LM25      | AM                  | QBJ             | WESTON           |
| LM23      | BA                  | PYK,QEZ,QFG,QGE | E.A. ENGINEERING |
|           |                     | QGF,QGO,QKG     |                  |
|           | MA                  | QCS,QHL,QIG,QKG | WESTON           |
|           |                     | QMF,QNH         |                  |
| TT09      | RK                  | QAZ             | HARDING LAWSON   |
| AX8       | LC                  | QLH             | E.A. ENGINEERING |
|           | BA                  | PYB             | E.A. ENGINEERING |
|           | RK                  | PYB             | HARDING LAWSON   |
| TF34      | RK                  | QHR             | HARDING LAWSON   |
|           | MA                  | QHR             | WESTON           |

ovember 8, 1991 Page 2

| AY8  | RK | QKQ                | CLASS-SEWAGE TR ATMENT   |
|------|----|--------------------|--------------------------|
|      | RK | QJR                | HARDING LAWSON           |
| AT8  | RK | QEV,QIP            | HARDING LAWSON           |
| บพ25 | LC | ÖKY .              | E.A. ENGINEERING         |
| P8   | RK | QEQ                | CLASS-NORTH BOUNDARY     |
| SS12 | BA | PVT, PXT           | E.A. ENGINEERING         |
|      | LC | QLJ                | E.A. ENGINEERING         |
| SD18 | LC | QLG                | E.A. ENGINEERING         |
| CC8  | BA | PYU                | E.A. ENGINEERING         |
|      | LC | QLI                | E.A. ENGINEERING         |
| UH11 | RK | *QAW,QEU           | HARDING LAWSON           |
| UN01 | RK | QIN,QEP            | HARDING LAWSON           |
| KK8  | RK | PRV, PVH, PXV, QKR | CLASS-SEWAGE TREATMENT   |
|      | RK | PRV, PVH           | CLASS-NORTH BOUNDARY     |
|      | RK | PRV, PSD, PVH      | CLASS-NORTHWEST BOUNDARY |
|      | RK | PVH                | CLASS-CERCLA             |
| AAA8 | RK | QKP                | CLASS-BASIN A            |
|      | RK | QIJ,QJP            | HARDING LAWSON           |
| UH20 | AM | QBC                | WESTON                   |
| SD25 | LC | QLF                | E.A. ENGINEERING         |
| AV8  | RK | QIR,QKU            | HARDING LAWSON           |
| 8    | RK | QIS,QKV            | HARDING LAWSON           |
| M21  | AM | QHS,QMA            | WESTON                   |
|      | RK | RAA                | HARDING LAWSON           |
|      | HT | QLU,QMA            | ENGINEERING SCIENCE      |
|      |    |                    |                          |

\*LOT WAS REJECTED.

DataChem Laboratories has no corrective actions to report.

Sincerely, Susan Peters for Ron Manaden

Ron Marsden

Quality Assurance Section Manager

RM/cwe

cc: D. Gayer

L. Eggenberger T. Mikesell

October 31,1991 Page 2

| 8AAA | RK | PWQ         | CLASS-NORTH BOUNDARY   |
|------|----|-------------|------------------------|
|      | RK | QES         | CLASS-BASIN A          |
|      | RK | QAY,QES     | HARDING LAWSON         |
| UH20 | RK | QEO         | CLASS-SEWAGE TREATMENT |
|      | MA | QEO         | WESTON                 |
|      | MD | QEO         | E.A. ENGINEERING       |
| UM25 | RK | RAB         | HARDING LAWSON         |
|      | MA | QBD         | WESTON                 |
| AV8  | RK | QAV,QEW,QIL | HARDING LAWSON         |
| И8   | RK | QAU,QEX,QIK | HARDING LAWSON         |

DataChem Laboratories has no corrective actions to report.

Sincerely,

Sincerely,

Ron Marsden

Ron Marsden Quality Assurance Section Manager

RM/cwe

cc: D. Gayer

L. Eggenberger T. Mikesell



October 31, 1991 Refer to: 91A220

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

4.7.2 8.7771

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0047,48,49,50,51 (CLASS)

DAAA15-87-0017/0061,62,63 (CLASS)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| ethod #       | Installation | Lot #                   | Contractor             |
|---------------|--------------|-------------------------|------------------------|
| KT07          | BA           | QDN,RAN,QDY,<br>QEM,QEE | E.A. ENGINEERING       |
| в9            | BA           | PWB, PXJ                | E.A. ENGINEERING       |
| KF15          | AM           | PZE                     | WESTON                 |
| J <b>S</b> 12 | ВА           | PVF, PWA                | E.A. ENGINEERING       |
| Y 9           | BA           | PYQ,QDF                 | E.A. ENGINEERING       |
|               | AM           | PZS                     | WESTON                 |
| KF17          | ВА           | PYW, PXZ                | E.A. ENGINEERING       |
| JD20          | ВА           | PWC, PXK                | E.A. ENGINEERING       |
| LM23          | AM           | QAI,QBH,QCR             | WESTON                 |
|               | ва           | QDO,QEA                 | E.A. ENGINEERING       |
| TF30          | BA           | PWL                     | E.A. ENGINEERING       |
| TT09          | ВА           | PYJ                     | E.A. ENGINEERING       |
| TF34          | AM           | QAT                     | WESTON                 |
|               | RK           | QAT                     | HARDING LAWSON         |
| AY8           | RK           | QET,QII                 | HARDING LAWSON         |
|               | RK           | QET                     | CLASS-SEWAGE TREATMENT |
| AT8           | RK           | QAX                     | HARDING LAWSON         |
| SS12          | BA           | PUG, PUB                | E.A. ENGINETRING       |
| CC8           | BA           | PYE                     | E.A. ENGINEERING       |
|               | RK           | PYE                     | HARDING LAWSON         |
| LL8           | RK           | PYI                     | HARDING LAWSON         |
| UN01          | RK           | PZH,QAS,QAO             | HARDING LAWSON         |
| -             | RK           | QAQ                     | CLASS-SEWAGE TREATMENT |

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- k. Method TF34 Lot QAT is acceptable. Problems noted with the high spike must be corrected prior to lower recoveries affecting analytical data. There is a major change in the recoveries found recently that needs to be isolated. Since the same problem is associated with the other cyanide method, it appears that the spike solutions could be the cause.
  - 1. Method AY8 Lots QET and QII are acceptable.
  - m. Method AT8 Lot QAX is acceptable.
  - n. Method SS12 Lots PUG and PUB are acceptable.
  - o. Method CC8 Lot PYE is acceptable.
  - p. Method LL8 Lot PYI is acceptable.
- q. Method UN01 Lot QAO is acceptable. Lots QAS and PZH are unacceptable, based on recoveries of the low and high spikes. Data in lots QAS and PZH should be reported as method "99."
- r. Method AAA8 Lots PWQ and QES are acceptable. Lot QAY is unacceptable, based on problems noted in the corrective action report, and should be reported as method "99."
  - s. Method UH20 Lot QEO is acceptable.
  - t. Method UM25 Lots RAB and QBD are acceptable.
  - Method AV6 Lots QAV, QEW, and QIL are acceptable.
  - v. Method N8 Lots QAU, QEX, and QIK are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments should be addressed to Mr. Douglas L. Stevenson at (410) 671-1569/3348.

Sincerely,

Darlene F. Bader

Contracting Officer's

Representative DAAA15-87-D-0017

Conrad L. Swann

Contracting Officer's

Representative DAAA15-90-D-0009

James J. McKenna
Contracting Officer's
Representative
DAAA15-91-D-0008

#### Enclosure

Copies furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180
Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177

Ms. Deborah Racioppi, Roy F. Weston, Inc., 208 Welsh Pool Road, Lionville, Pennsylvania 19341-1313

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112

Mr. Steve Brown, EA Laboratories, 15 Loveton Circle, Sparks, Maryland 21152



## DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND. MARYLAND 21010-5401

November 25, 1991



Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

The control charts submitted with your letter dated October 31, 1991, for work done in support of the installations listed at the enclosure, under contracts DAAA15-87-D-0017, DAAA15-90-D-0009, and DAAA15-91-D-0008, have been reviewed.

The following comments apply to this review:

- a. Method KT07 Lots QDN, RAN, QDY, QEM, and QEE are acceptable.
  - b. Method B9 Lots PWB and PXJ are acceptable.
- c. Method KF15 Problems noted with the high spike must be corrected prior to lower recoveries affecting analytical data. There is a major change in the recoveries found recently that needs to be isolated. Lot PZE is acceptable.
  - d. Method JS12 Lots PVF and PWA are acceptable.
  - e. Method Y9 Lots PYQ, QDF, and PZS are acceptable.
  - f. Method KF17 Lots PYW and PXZ are acceptable.
  - g. Method JD20 Lots PWC and PXK are acceptable.
- h. Method LM23 Lots QAI, QBH, QCR, QDO, and QEA are acceptable.
  - i. Method TF30 Lot PWL is acceptable.
  - j. Method TT09 Lot PYJ is acceptable.



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND. MARYLAND 21010-5401

December 5, 1991



Installation Restoration Division

Ms. Mimi Uhlfelder EA Laboratories, Inc. 15 Loveton Circle Sparks, Maryland 21152

Dear Ms. Uhlfelder:

The control charts forwarded with your letter of November 7, 1991, for work done in support of Badger Army Ammunition Plant, under contract DAAA15-91-D-0008, have been reviewed. The lots submitted are listed below:

- Method LM26 - Lots DAL and DAM are acceptable. The value reported on the control charts for the standard matrix method blank/spike should be corrected to reflect the correct spike concentration. Values should be entered in as "parts-per-million" rather then "parts-per-billion."

All future submissions of control charts from EA Laboratories, Inc., will require two forms. Submissions should continue in hard copy form. However, the appropriate software files should be attached for this Agency to review using the current version of the control chart program.

All data represented in this submission should be transferred to the U.S. Army Toxic and Hazardous Materials Agency's Installation Restoration Data Management Information System.

Questions concerning the review of the methods should be directed to Mr. Robert D. Murray, at (410) 671-1571/3348.

Sincerely,

James J. McKenna

Contracting Officer's Representative

Copy Furnished:

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112



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## DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS AGE.

ABERDEEN PROVING GROUND, MARYLAND 21010-5401

December 9, 1991



Installation Restoration Division

Ms. Mimi Uhlfelder EA Laboratories 19 Loveton Circle Sparks, Maryland 21152

Dear Ms. Uhlfelder:

Control charts submitted with your letter of November 22, 1991, for work done in support of Badger Army Ammunition Plant, under contract DAAA15-91-D-0008, have been reviewed. The lots submitted are listed below:

- a. Method UM19 Lot DAS is acceptable.
- b. Method LM17 Lots CZX and CZY are acceptable.
- c. Method LM20 Lot CXR is acceptable.

This Agency will continue to offer assistance in eliminating the problems EA Laboratories is experiencing with the control chart program.

Two forms will be required on all future submissions of control charts from EA Laboratories. Submissions should continue in hard copy form. However, the appropriate software files should be attached for this Agency to review using the current version of the control chart program.

All data represented in this submission should be transferred to the U.S. Army Toxic and Hazardous Materials Agency's Installation Restoration Data Management Information System.

Questions concerning the review of the methods should be directed to Mr. Robert Murray, at (410) 671-1571/3348.

Sincerely,

James J J McKenna Contracting Officer's

Representative

Copy Furnished:

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112



## US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010-5401

December 10, 1991



Installation Restoration Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Clsson:

The control charts submitted with your letter dated November 8, 1991, under contract numbers DAAA15-91-D-0008, DAAA15-90-D-0007, and DAAA15-90-D-0010, have been reviewed. The methods, lots, and installations are included at the enclosure.

The following comments apply to this submission:

- a. Method JB03- Lot DDJ is acceptable.
- b. Method SB03- Lot DDK is acceptable.
- c. Method UW26- Lot EEU is acceptable.
- d. Method SD24- Lots FJS, FJT, and FJU are acceptable.
- e. Method TT08- Lot IDZ, IEA, IEB, and IEC are acceptable.
- f. Method JS15- Lot MEF is acceptable.
- g. Method UM17- Lots VGI and VGL are acceptable. However, the low, low spike recoveries were observed for control analytes ETBD10 and MEC6D6. Request that the spiking technique be monitored in future testing.
  - h. Method LM16- Lot VGK is acceptable.
  - i. Method JS15- Lot MEF is acceptable.

Questions or comments should be addressed to Ms. Brenda P. Little at (410) 671-1575/3348.

Sincerely,

renes Melenna

James J. McKenna Contracting Officer's Representative DAAA15-91-D-0008 Charles A. Lechner
Contracting Officer's
Representative
DAAA15-90-D-0007

Rosemary Austin Contracting Officer's

Representative DAAA15-90-D-0010

Enclosure

Copies furnished (with enclosure):

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112
Mr. Tom Dabrowski, Chem-Nuclear Remediation, Inc., 743 Horizon Court, Suite 200, Grand Junction, Colorado 81506
Mr. Lawrence Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 20850
Ms. Marcia Meredith, Ecology and Environmental, Inc., 368 Pleasantview Drive, Lancaster, New York 14086

| Lot | Delivery<br>Order | Installation | Method  | Analysis        | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|-----------------|---------------------|----------------------|------------------------------|
| DDJ | WCFS              | CM           | JB03    | Mercury Soil    | 23-Oct-91           | 22                   |                              |
| DDK | 45                | LS           | SB03    | Mercury Water   | 23-Oct-91           | 10                   |                              |
| DDK | 47                | SD           | SB03    | Mercury Water   | 23-Oct-91           | 13                   |                              |
| DDK | 48                | NK           | SB03    | Mercury Water   | 23-Oct-91           | 2                    |                              |
| DDK | WCFS              | CM           | SB03    | Mercury Water   | 23-Oct-91           | 2                    |                              |
| EEU | 45                | LS           | UW26    | Explosives Wate | 31-Oct-91           | 9                    |                              |
| EEU | 49                | PI           | UW26    | Explosives Wate | 31-Oct-91           | 5                    |                              |
| FJS | 45                | LS           | SD24-AS | Graphite Furnac | 23-Oct-91           | 1                    | 01-Nov-91                    |
| FJS | 48                | NK           | SD24-AS | Graphite Furnac | 23-Oct-91           | 2                    | 01-Nov-91                    |
| FJT | 45                | LS           | SD24-SE | Graphite Furnac | 23-Oct-91           | 1                    | 01-Nov-91                    |
| FJT | 48                | NK           | SD24-SE | Graphite Furnac | 23-Oct-91           | 2                    | 01-Nov-91                    |
| FJU | 45                | LS           | SD24-PB | Graphite Furnac | 19-Oct-91           | 1                    | 01-Nov-91                    |
| FJU | 48                | NK           | SD24-PB | Graphite Furnac | 19-Oct-91           | 2                    | 01-Nov-91                    |
| IDZ | CNES              | TS           | TT08    | Ion Chrom Water | 18-Oct-91           | 1                    |                              |
| IDZ | WCFS              | CM           | TT08    | Ion Chrom Water | 18-Oct-91           | 1                    |                              |
| IEA | WCFS              | CM           | TT08    | Ion Chrom Water | 16-Oct-91           | 6                    |                              |
| IEB | WCFS              | CM           | TT08    | Ion Chrom Water | 17-Oct-91           | 1                    |                              |
| EC  | WCFS              | CM           | TT08    | Ion Chrom Water | 22-Oct-91           | 6                    |                              |
| MEF | WCFS              | CM           | JS15    | Metals By ICP S | 23-Oct-91           | 23                   |                              |
| VGI | ABB               | BA           | UM17    | Voas GCMS Water | 24-Sep-91           | 1                    |                              |
| VGK | WCFS              | CM ·         | LM16    | Voas GCMS Soil  | 07-Oct-91           | 13                   |                              |
| VGL | 48                | NK           | UM17    | Voas GCMS Water | 07-Oct-91           | 12                   |                              |
| VGM | 47                | SD           | UM17    | Voas GCMS Water | 09-Oct-91           | 11                   |                              |
| VGM | CNES              | TS           | UM17    | Voas GCMS Water | 09-Oct-91           | 1                    |                              |
| VGQ | WCFS              | CM           | UM17    | Voas GCMS Water | 16-Oct-91           | 3                    |                              |

ABB Contract Number DAAA15-91-D-008 CNES Contract Number DAAA15-90-D-0007 WCFS Contract Number DAAA15-90-D-0010

<sup>\*</sup> Control Charts for lots FJS, FJT, and FJU were submitted in the weekly report dated 11/01/91 for installation DV, delivery Order E&E E&E Contract Number DAAA15-90-0012



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401



December 11, 1991

Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Reference is made to your control chart submission dated November 15, 1991, under contract numbers DAAA15-87-D-0016, DAAA15-91-D-0008, DAAA15-90-D-0007, DAAA15-90-D-0010 and DAAA15-90-D-0012. The methods, lots, and installations are at the enclosure.

Subject control charts were reviewed with results as follows:

- a. Method SB03 Lot DDL is acceptable.
- b. Method LW29 Lot LAH is acceptable.
- c. Method JD13 Lot FJX is acceptable.
- d. Method UM16 Lot SHI is acceptable.
- e. Method UM17 Lots VGR and VGS are acceptable.
- f. Method LM15 Lots SHC, SHE, SHF, and SHH are acceptable.
- g. Method LM16 The 3-day X-Bar control charts and tables for 12DCD4 were not submitted. Therefore, lots VGN, VGO, and VGP were not reviewed. It is requested that you furnish this Agency with the necessary information as soon as possible.

This Agency acknowledges receipt of the quality control data for method LM15 (lot SHG). Even though these data are not submitted for acceptance it will be filed.

Potomac Research, Inc., has been advised that the in-control lots, as noted above, are cleared for additional processing.

Questions concerning this review should be directed to Mr. Ivan C. Sosa at (410) 671-1577/3348.

Sincerely,

Tourson Scarlorous

Robert D. Murray
Contracting Officer's
Representative
DAAA15-87-D-0016

Charles A. Lechner Contracting Officer's Representative DAAA15-90-D-0007 Tames J. McKenna Contracting Officer's Representative DAAA15-91-D-0008

Rosemary Austin
Contracting Officer's
Representative
DAAA15-90-D-0010

James D. Daniel
Contracting Officer's
Representative
DAAA15-90-D-0012

#### Enclosure

Copies furnished (with enclosure):

Mr. Stephen Spellenberg, Arthur D. Little, Inc., 15 Acorn Park, Cambridge, Massachusetts 02140-2390
Mr. Larry Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 20850
Ms. Marcia Meredith, Ecology and Environment, Inc., 368 Pleasantview Drive, Lancaster, New York 14086
Mr. Tom Dabrowski, Chem-Nuclear Remediation, Inc., 743 Horizon Court, Suite 200, Grand Junction, Colorado 81506
Mr. Jeffrey Pickett, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112

### rekly Control Chart Summary

#### November 15, 1991

| Lot | Delivery<br>Order | Installation | Method  | Analysis        | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|-----------------|---------------------|----------------------|------------------------------|
| DDL | WCFS              | CM           | SB03    | Mercury Water   | 08-Nov-91           | 20                   |                              |
| FJX | 45                | LS           | JD13-AS | Graphite Furn S | 07-Oct-91           | 19                   |                              |
| FJX | 48                | NK           | JD13-AS | Graphite Furn S | 07-Oct-91           | 2                    |                              |
| LAH | WCFS              | CM           | LW29    | Herbicides/Soil | 29-Oct-91           | 4                    |                              |
| SHC | E&E               | DV           | LM15    | Semivoas GCMS S | 20-Sep-91           | 5                    |                              |
| SHE | 48                | NK           | LM15    | Semivoas GCMS S | 24-Sep-91           | 2                    |                              |
| SHE | CNES              | TS           | LM15    | Semivoas GCMS S | 24-Sep-91           | 1                    |                              |
| SHE | E&E               | DV           | LM15    | Semivoas GCMS S | 24-Sep-91           |                      |                              |
| SHF | WCFS              | CM           | LM15    | Semivoas GCMS S | 25-Sep-91           | 10                   |                              |
| SHG | E&E               | DV           | LM15    | Semivoas GCMS S | 24-Sep-91           | 8                    |                              |
| SHH | WCFS              | CM           | LM15    | Semivoas GCMS S | 08-Oct-91           | 13                   |                              |
| SHI | ABB               | BA           | UM16    | Semivoas GCMS W | 23-Sep-91           | 1                    |                              |
| VGN | WCFS              | CM           | LM16    | Voas GCMS Soil  | 10-Oct-91           | 12                   |                              |
| VGO | WCFS              | CM           | LM16    | Voas GCMS Soil  | 11-Oct-91           | 10                   |                              |
| VGP | WCFS              | CM           | LM16    | Voas GCMS Soil  | 16-Oct-91           | 10                   |                              |
| VGR | WCFS              | CM           | UM17    | Voas GCMS Water | 25-Oct-91           | 11                   |                              |
|     | WCFS              | CM           | UM17    | Voas GCMS Water | 29-Oct-91           | 10                   |                              |

ABB Contract Number DAAA15-91-D-008 CNES Contract Number DAAA15-90-D-0007 E&E Contract Number DAAA15-90-0012 WCFS Contract Number DAAA15-90-D-0010



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5401

December 24, 1991



Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

The control charts submitted with your letter of November 15, 1991, for the work done at Rocky Mountain Arsenal, Badger Army Ammunition Plant, Army Material Technology Laboratory, and Hamilton Army Airfield under contract numbers DAAA15-87-D-0017, DAAA15-90-D-0008, DAAA15-90-D-0009, and DAAA15-91-D-0013, have been reviewed.

The following comments apply to these submissions:

- a. Method KT07 Lots QFP, QGZ, QHH, and QLP are acceptable.
- b. Method B9 Lots PXC, PYN, PZR, and QBM are acceptable.
- c. Method KF15 Lots QID and QMI are acceptable.
- d. Method LW23 Lots QEB and QHJ are acceptable.
- e. Method JS12 Lots PXG, PYS, and PZZ are acceptable. Lot PXN for SB is not acceptable. This analyte should be removed from the lot and resubmitted separately to this Agency under a separate lot designator. If DataChem Laboratories has questions concerning the calculations being performed by version 2.97 of the Installation Restoration Control Chart Program, this Agency should be contacted immediately.
  - f. Method KF17 Lots QFQ, QGG, and QGY are acceptable.

- g. Method LN08 Lot PTF is acceptable.
- h. Method UH20 Lots QHQ and QJT are acceptable.
- i. Method JD20 Lot PYO is acceptable.
- j. Method LM25 Lots QDK, QGU, QCT, and QCU are acceptable.
- k. Method LM23 Lots QNR, QND, QNM, and QNQ are acceptable.
- 1. Method TF34 Lots QIM, QJS, QMY, and QLW are acceptable.
- m. Method AY8 Lot QPT is acceptable.
- n. Method SS12 Lots PYV and PYH are acceptable.
- o. Method CC8 Lots QBB, QFC, and QGX are acceptable.
- p. Method UH11 Lot QIO is acceptable.
- q. Method UN01 Lots QEY and QPL are not acceptable.
- r. Method KK8 Lots QAP and QPU are acceptable.
- s. Method AAA8 Lot QPZ is acceptable.
- t. Method AT8 Lot QJQ is acceptable.
- u. Method SD25 Lot PYC is acceptable.
- v. Method UM21 Lots QNT and QOJ are acceptable.
- w. Method JD21 Lots PXE and PYP are acceptable.
- x. Method SD18 Lot PYD is acceptable.

All the data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments should be addressed to Mr. Robert Murray at (301) 671-1571/3348.

Sincerely,

Darlene F. Bader

Contracting Officer's

Representative DAAA15-87-D-0017

Conrad L. Swann

Contracting Officer's

Representative DAAA15-90-D-0009

KL J Jt.
Robin L. Stein

Robin L. Stein
Contracting Officer's
Representative
DAAA15-91-D-0013

n Comingue K Edwards

Dominique K. Edwards Contracting Officer's Representative DAAA15-90-D-0008

Copies Furnished:

Program Manager for Rocky Mountain Arsenal, ATTN: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, P.O. Box 7050, Portland, Maine 04112



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5401

251

December 27, 1991

Technical Support Division

Mr. Theodore Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

The control charts submitted with your letter dated November 27, 1991, for work done in support of the installations listed at the enclosure, under contracts DAAA15-87-D-0016, DAAA15-90-D-0010, DAAA15-91-D-0008, and DAAA15-90-D-0012 have been reviewed.

The following comments apply to this review:

- a. Method UW26 Lots EEW and EEX are acceptable.
- b. Method TT08 Lots IED, IEE, IEF, IEG, IEH, and IEI are acceptable.
  - c. Method UN06 Lots GAF and GAG are acceptable.
- d. Method LM15 Lots SHK, SHL, SHN, and SHP are acceptable. Data in lot SHK which was reextracted outside of holding times should be flagged, since it confirms original data, rather than submitted as method "99."
  - e. Method LH13 Lots CCP, CCQ, and CCR are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal (RMA) should be transferred to D. P. Associates at the Arsenal. Based on lots already received, the installation code for data transferred to RMA should be changed to RK.

Questions or comments show'd be addressed to Mr. Douglas L. Stevenson at (410) 671-1569/3

Si aly,

Robert D. Murray

Contracting Officer's

Representative DAAA15-87-D-0016 Rosemary Austin
Contracting Officer's
Representative
DAAA15-90-D-0010

James J McKenna Contracting Officer's

Representative
DAAA15-91-D-0008

James D. Daniel Contracting Officer's Representative

DAAA15-90-D-0012

Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, ATTN: AMXRM-LS (Mr. Gregory Mohrman), Building 111, Commerce City, Colorado 80022-2180

Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177

Ms. Marcia Meredith, Ecology and Environment, 368 Pleasantview Z Drive, Lancaster, New York 14036

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112

Mr. Frank Anastasi, Woodward-Clyde Federal Services, One Church Street, Suite 404, Rockville, Maryland 20850 eekly Control Chart Summary

### November 27, 1991

| Lot | Delivery<br>Order | Installation | Method | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|------------------|---------------------|----------------------|------------------------------|
| EEW | 49                | PI           | UW26   | Explosives Water | 16-Nov-91           | 6                    |                              |
| ŒD  | 51                | RM           | TT08   | Ion Chrom Water  | 30-Oct-91           | 5                    |                              |
| IEG | 51                | RM           | TT08   | Ion Chrom Water  | 08-Nov-91           | 2                    |                              |
| ΙΕΉ | 51                | RM           | TT08   | Ion Chrom Water  | 13-Nov-91           | 6                    |                              |

Weekly Control Chart Summary November 27, 1991

| Lot | Delivery<br>Order | Installation | Method | Analysis           | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|--------------------|---------------------|-------------------|------------------------------|
| SHK | E&E               | DV           | LM15   | Semivoas GCMS Soil | 23-Oct-91           | 1                 |                              |
|     |                   |              |        |                    | •                   |                   |                              |

E&E Contract Number DAAA15-90-0012

# eekly Control Chart Summary November 27, 1991

| Lot | Delivery<br>Order | Installation | Method | Analysis           | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|--------------------|---------------------|----------------------|------------------------------|
| IEE | WCFS              | CM           | TT08   | Ion Chrom Water    | 05-Nov-91           | 1                    |                              |
| CCP | WCFS              | CM           | LH13   | Pest/PCB Soil      | 25-Oct-91           | 10                   |                              |
| CCQ | WCFS              | CM           | LH13   | Pest/PCB Soil      | 05-Nov-91           | 10                   |                              |
| CCR | WCFS              | CM           | LH13   | Pest/PCB Soil      | 06-Nov-91           | 13                   |                              |
| SHK | WCFS              | CM           | LM15   | Semivoas GCMS Soil | 23-Oct-91           | 11                   |                              |
| SHL | WCFS              | CM           | LM15   | Semivoas GCMS Soil | 28-Oct-91           | 9                    |                              |
| SHN | WCFS              | CM           | LM15   | Semivoas GCMS Soil | 29-Oct-91           | 11                   |                              |
| SHP | WCFS              | CM           | LM15   | Semivoas GCMS Soil | 29-Oct-91           | 11                   |                              |

WCFS Contract Number DAAA15-90-D-0010

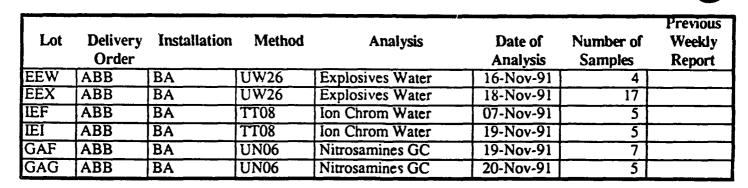


ABB Contract Number DAAA15-91-D-008



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND. MARYLAND 21010-5401

January 2, 1992



Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

The control charts submitted with your letter dated November 27, 1991, for work done under contract numbers DAAA15-87-D-0017, DAAA15-91-D-0008, DAAA15-90-D-0016, and DAAA15-90-D-0009, in support of installations included at the enclosure, have been reviewed.

The following comments apply to this submission:

- a. Method B9 Lots QDT and QEF are acceptable.
- b. Method KF15 Lots QSF, QTH, QUX, and QWJ are acceptable.
- c. Method LW23 Lot QOQ is acceptable.
- d. Method JS12 Lots QFN, QDS, QEK, QDJ, QHF, QIA, and QBL are acceptable. This Agency agrees that antimony in lots QFN, QEK, QDS, and QDJ should be reported as method "99" in a separate lot.
- e. Method JD21 Lots QHI, QDV, and QEJ are acceptable. The range for the low spike in lots QDV and QEJ of 52.5 percent is above the upper warning limit. The method should be monitored closely.
- f. Method Y9 Lots QKE and QMP are acceptable. Based on the comment that field samples are reported as "less than," lots QNK and QOW are acceptable. DataChem Laboratories should investigate the cause of the low recoveries for the high spikes.
  - g. Method KF17 Lot QSS is acceptable.
  - h. Method LW27 Lots QGA, QGS, and QHB are acceptable.
- i. Method LH17 Lot QJD is acceptable. The laboratory's comment of "The recovery for lot QJD is slightly above . . . " is

unclear since the analyte the comment references is not specified. The laboratory should thoroughly review all comments to assure that they are accurate and specific.

- j. Method JD20 Lot QDU is acceptable.
- k. Method JD23 Lot QFZ is acceptable.
- 1. Method LM23 Lots QTN, QUV, and QYB are acceptable.
- m. Method TF30 Lot QKK is acceptable.
- n. Method TT09 Lots QIY, QKJ, and QLY are acceptable. In a telephone conversation between Ms. Peterson, DataChem Laboratories, and Ms. Cook, this Agency, on December 11, 1991, Ms. Peterson stated that lot QKJ was only analyzed for sulfate, therefore, explaining the reason why lot QKJ was not plotted for the analytes chloride and fluoride. In order to facilitate this Agency's review of control charts, the laboratory is reminded that all pertinent information should be stated in the comments accompanying each method.
  - o. Method TT34 Lots QTV and QXD are acceptable.
  - p. Method AY8 Lots QYR and RBE are acceptable.
- q. Method UW25 Lot QKH is acceptable. Sample QKH005 should be reported with the flagging code "G."
  - r. Method SS12 Lot QGW is acceptable.
  - s. Method AAA8 Lot QTU is acceptable.
- t. Method UH20 Lots QQH, QRU, and QMT are acceptable. This Agency agrees that chlordane, from lot QRU, should be reported as method "99" in a separate lot.
- u. Method UM25 Lots QLV and QQA are acceptable. The comments discuss lot "QQR." It appears that lot QQA should be referenced instead of lot QQR. The laboratory should thoroughly review comments to correct such typographical errors.
  - v. Method AV8 Lots QYM and QZU are acceptable.
  - w. Method N8 Lots QYN and QZV are acceptable.
  - x. Method UM21 Lots QXE, QXF, QXG, and QXX are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data for Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments concerning this review should be directed to Ms. Jennifer J. Cook at (410) 671-1574/3348.

Sincerely,

Darlene F. Bader Contracting Officer's Representative

DAAA15-87-D-0017

Change of Educado

Dominique K. Edwards Contracting Officer's Representative

DAAA15-90-D-0008

James J. McKenna Contracting Officer's Representative

DAAA15-91-D-0008

Randall J. Cerar

Contracting Officer's

Representative DAAA15-90-D-0016

Conrad L. Swann Contracting Officer's Representative DAAA15-90-D-0009

#### Enclosure

Copies Furnished (with enclosure):

Ms. Gail DeRuzzo, Roy F. Weston, Inc., 208 Welsh Pool Road, Lionville, Pennsylvania 19341-1313

Program Manager for Rocky Mountain Arsenal, ATTN: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce

City, Colorado 80037-0177

Mr. Steve Brown, EA Laboratories, 15 Loveton Circle, Sparks, Maryland 21152

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial V Street, Portland, Maine 04112

Mr. Bruce King, Engineering Science, Inc., 75 North Fair Oaks Avenue, Pasadena, California 91103

Ms. Carol Sweet, Metcalf & Eddy, Inc., 1201 Peachtree Street N.E., 400 Colony Square, Suite 1101, Atlanta, Georgia 30361

# DATA CHEM

November 27, 1991 Refer to: 91A250

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0061,62,63,64,65(CLASS)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

Contract #: DAAA-15-90-D-0008(ENGINEERING SCIENCE)

Contract #: DAAA-15-90-0016(METCALF & EDDY)

Contract #: DAAA-15-90-0009(ROY F. WESTON)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method #  | <u>Installation</u> | Lot #                   | Contractor       |
|-----------|---------------------|-------------------------|------------------|
| B9        | BA                  | QDT,QEF                 | E.A. ENGINEERING |
| KF15      | AM                  | QSF                     | WESTON           |
|           | LX                  | QTH,QUX,QWJ             | METCALF & EDDY   |
| LW23      | BA                  | Q0Q                     | E.A. ENGINEERING |
| JS12      | ВА                  | QFN,QDS,QEK,<br>QDJ,QHF | E.A. ENGINEERING |
|           | AM                  | QIA,QBL                 | WESTON           |
| JD21      | ВА                  | QHI,QDV,QEJ             | E.A. ENGINEERING |
| <b>Y9</b> | AM                  | QRE, OMP, ONK           | WESTON           |
|           | ВА                  | QOW                     | E.A. ENGINEERING |
| KF17      | ВА                  | oss                     | E.A. ENGINEERING |
| LW27      | ВА                  | QGA, QGS, QHB           | E.A. ENGINEERING |
| LH17      | AM                  | QJD                     | WESTON           |
| JD20      | BA                  | QDU                     | E.A. ENGINEERING |
| JD23      | BA                  | QFZ                     | E.A. ENGINEERING |

Gira'n.

November 27,1991 Page 2

| LM23         | AM | QTN,QUV     | WESTON                 |
|--------------|----|-------------|------------------------|
|              | LX | QTN, QYB    | METCALF & EDDY         |
| TF30         | BA | QKK         | E.A. ENGINEERING       |
| TT09         | RK | QIY         | HARDING LAWSON         |
|              | BA | QKJ         | E.A. ENGINEERING       |
|              | HT | QLY         | ENGINEERING SCIENCE    |
| TF34         | RK | QTV         | CLASS-BASIN A          |
|              | AM | QTV         | WESTON                 |
|              | LX | QTV,QXD     | METCALF & EDDY         |
| AY8          | RK | QYR, RBE    | HARDING LARSON         |
|              | RK | QYR         | CLASS-BASIN A          |
| •            | RK | QYR         | CLASS-SEWAGE TREATMENT |
| UW25         | BA | QKH         | E.A. ENGINEERING       |
| SS12         | BA | QGW         | E.A. ENGINEERING       |
| 8 <i>AAA</i> | RK | QTU         | CLASS-BASIN A          |
| UH20         | AM | QQH,QRU,QMT | WESTON                 |
|              | LX | QRU         | METCALF & EDDY         |
| UM25         | HT | QLV         | ENGINEERING SCIENCE    |
|              | MA | QQA         | WESTON                 |
| AV8          | RK | QYM,QZU     | CLASS-BASIN A          |
| N8           | RK | QYN,QZV     | CLASS-BASIN A          |
| UM21         | LX | QXE,QXF,QXG | METCALF & EDDY         |
|              | AM | QXX         | WESTON                 |
|              | RK | QXX         | CLASS-BASIN A          |
|              |    |             |                        |

DataChem Laboratories has no corrective actions to report.

Sincerely, Ron Marsden Quality Assurance Section Manager

RM/cwe

cc: D. Gayer
 L. Eggenberger
 T. Mikesell



#### DEPARTMENT OF THE ARMY

# US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010-5401

January 9, 1992



Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

#### Dear Mr. Marsden:

Your control chart submission dated November 22, 1991, under contract numbers DAAA15-87-D-0017, DAAA15-91-D-0008, DAAA15-90-D-0008, DAAA15-90-0016, and DAAA15-90-D-0009 have been reviewed. The methods, lots, and installations are at the enclosure.

#### Comments are as follows:

- a. Method B9 Lots QFI and QDI are acceptable.
- b. Method JD21 Lots RAP, QFK, and QDG are acceptable.
- c. Method KF17 Lots QLT and QHG are acceptable.
- d. Method CC8 Lots QMJ and QIX are acceptable.
- e. Method LL8 Lots QIV and QLX are acceptable.
- f. Method TF34 Lot QRV is acceptable.
- g. Method AY8 Lots QQV and QSN are acceptable.
- h. Method LW23 Lots QFH, QHD, QGC, and QJY are acceptable.
- i. Method JS12 Lots PZQ and RAL are acceptable.
- i. Method LNO8 Lots PTV, QDL, and QGT are acceptable.
- k. Method LM23 Lots QOO, QQT, QSH, QOH, QPD, and QRE are acceptable.
  - 1. Method P8 Lot QRI is acceptable.
  - m. Method SS12 Lots QFB and QBA are acceptable.
  - n. Method UH11 Lots QPY and QRH are acceptable.

- o. Method KK8 Lots PWP, QQW, and QIH are acceptable.
- p. Method AV8 Lots QPX and QSK are acceptable.
- q. M.thod UM21 Lots QRO, QSI, PZI, and QTT are acceptable.
- r. Method KF15 Lots QNG, QNO, QPH, and QPS are acceptable. The control charts differ between what is found on the diskette in comparison to the printout. Specifically, lot QOG, analyzed on November 11, 1991, has been deleted from the printout but is found on the diskette. This practice is unacceptable to this Agency. It is requested you provide this Agency with a written explanation for this discrepancy within 10 working days of receipt of this letter.
  - s. Method AX8 Lot QBK is acceptable.
  - t. Method JD20 Lot QDH and QFJ are acceptable.
- u. Method Y9 Lots QIB, QGJ, QEI, QIB, QLR, and QJG are acceptable.
  - v. Method LH17 Lots QNF, QJN, QHO, and QMH are acceptable.
- w. Method LM25 Lots QGD, QHA, QIE, and QJC are acceptable. This Agency concurs with the laboratory's recommendation that the data for lot QGP are unacceptable due to low recoveries for at least two-thirds of the method analytes.
  - x. Method AAA8 Lot QQU is acceptable.
  - y. Method UM25 Lots QCY, QJA, QHP, and QMS are acceptable.
- z. Method N8 Lots QIS and QPV are acceptable. Lot QRG was not reviewed because data for 11DCE were not provided. Furnish this Agency with data for 11DCE in lot QRG as soon as possible.

When quality control spike recoveries are out of control or are markedly different from historical data, the results of field sample analyses should be provided. This will allow this Agency to make an accurate assessment of data usability. For example, if spike recoveries are high, but the samples have no hits, the data should still be usable.

As a reminder to the laboratory, all changes made to data must be explained in the corresponding narrative.

Potomac Research, Inc., has been advised that the in-control lots, as noted above, are cleared for additional processing.

Questions concerning this review should be directed to Mr. Ivan C. Sosa at (410) 671-1577/3348.

Sincerely,

Darlene F. Bader Contracting Officer's

Representative DAAA15-87-D-0017

Dominique K. Edwards
Dominique K. Edwards
Contracting Officer's

Representative DAAA15-90-D-0008

James J McKenna Contracting Officer's Representative

Randall J. Cerar

DAAA15-91-D-0008

Contracting Officer's Representative

DAAA15-90-D-0016

Conrad L. Swann Contracting Officer's Representative

DAAA15-99-D-0009

#### Enclosure

Copies Furnished (with enclosure):

Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547

Program Manager for Rocky Mountain Arsenal, ATTN: AMKRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, P.O. Box 117 Commerce City,

Colorado 80037-0177

Ms. Laura Hofman, Engineering Science, Inc., 600 Bancroft Way, Berkley, California 94710

Mr. Jeffrey Pickett, ABB Environmental, Inc., P.O. Box 7050, / Portland, Maine 04112

Ms. Debbie Racioppi, Roy F. Weston, Inc., Weston Way, West Chester, Pennsylvania 19380

Mr. David Sharp, Metcalf & Eddy, Inc., 2800 Corporate Exchange Drive, Suite 250, Columbus, Ohio 43231



November 22, 1991 Refer to: 91A246

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0047,48,49,51(CLASS)

DAAA15-87-0017/0061,62,63 (CLASS)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

Contract #: DAAA-15-90-D-0008(ENGINEERING SCIENCE)

ontract #: DAAA-15-90-0016(METCALF & EDDY)

Contract #: DAAA-15-90-0009(ROY F. WESTON)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method #  | Installation | Lot #              | Contractor       |
|-----------|--------------|--------------------|------------------|
| B9        | ВА           | QFI,QDI            | E.A. ENGINEERING |
| KF15      | AM           | QNG, QNO, QPH      | WESTON           |
|           | LX           | QPS                | METCALF & EDDY   |
| LW23      | BA           | QFH,QHD,QGC        | E.A. ENGINEERING |
|           | MA           | QJY                | Weston           |
| JS12      | AM           | PZQ                | WESTON           |
|           | BA           | RAL                | E.A. ENGINEERING |
| JD21      | BA           | RAP,QFK,QDG        | E.A. ENGINEERING |
| <b>Y9</b> | BA           | QGJ,QEI,QLR        | E.A. ENGINEERING |
|           | AM           | QIB,QJG            | WESTON           |
| KF17      | BA           | QLT, QHG           | E.A. ENGINEERING |
| LN08      | BA           | PTV,QDL,QGT        | E.A. ENGINEERING |
| LH17      | AM           | QHO, QNF, QJN, QMH | WESTON           |
| JD20      | BA           | QFJ,QDH            | E.A. ENGINEERING |
| LM25      | BA           | QGD,QHA,QGP        | E.A. ENGINEERING |
|           | AM           | QGP,QIE,QJC        | WESTON           |

November 22,1991 Page 2

| LM23 | LX       | QOO,QQT            | METCALF & EDDY                              |
|------|----------|--------------------|---------------------------------------------|
| ~    | BA       | Q00,QSH            | E.A. ENGINEERING                            |
|      | AM       | QOH, QPD, QRE, QSH | WESTON                                      |
| AX8  | AM       | QBK                | WESTON                                      |
| TF34 | MA       | QRV                | WESTON                                      |
|      | LX       | QRV                | METCALF & EDDY                              |
| AY8  | RK       | QQV,QSN            | CLASS-SEWAGE TREATMENT                      |
|      | RK       | QQV QSN            | CLASS-SEWAGE TREATMENT CLASS-NORTH BOUNDARY |
|      | RK       | QSN                | CLASS-NORTH BOUNDARY                        |
| P8   | RK       | QRI                | CLASS-BASIN A                               |
| - 0  | RK       | QRI                |                                             |
| SS12 | BA       | QFB                | CLASS-NORTH BOUNDARY                        |
| 3312 | AM       | QBA                | E.A. ENGINEERING<br>WESTON                  |
| CC8  | HT       | QMJ                |                                             |
|      | BA       | QIX                | ENGINEERING SCIENCE                         |
|      | RK       | QIX                | E.A. ENGINEERING                            |
| LL8  | BA       | QIV                | HARDING LAWSON                              |
| 700  | RK       | OIA<br>OIA         | E.A. ENGINEERING                            |
|      | HT       | OLX                | HARDING LAWSON                              |
| UH11 | RK       | <del></del>        | ENGINEERING SCIENCE                         |
| ONII | RK       | QPY, QRH           | CLASS-SEWAGE TREATMENT                      |
|      | RK       | QRH                | CLASS-BASIN A                               |
| KK8  | RK       | QRH                | CLASS-NORTH BOUNDARY                        |
| NNO  |          | PWP,QQW            | CLASS-NORTH BOUNDARY                        |
|      | RK<br>RK | QQW                | CLASS-SEWAGE TREATMENT                      |
| 8AAA | RK<br>RK | QIH                | HARDING LAWSON                              |
| AAAO |          | QQU                | CLASS-BASIN A                               |
| UM25 | RK       | QQU                | CLASS-NORTH BOUNDARY                        |
| UMZS | AM       | QCY,QHP,QJA,QMS    | WESTON                                      |
|      | BA       | QJA                | E.A. ENGINEERING                            |
|      | RK       | QJA,QHP            | HARDING LAWSON                              |
|      | RK       | QJA                | STOLLAR                                     |
| AV8  |          | QPX,QSK            | CLASS-BASIN A                               |
| •••  |          | QSK                | CLASS-SEWAGE TREATMENT                      |
| N8   |          | QPV, QRG           | CLASS-BASIN A                               |
|      |          | QRG                | CLASS-NORTH BOUNDARY                        |
|      |          | QRG                | CLASS-SEWAGE TREATMENT                      |
|      |          | QIS*               | HARDING LAWSON                              |
| UM21 |          | QRO,QSI,PZI*,QTT   |                                             |
|      |          |                    | METCALF & EDDY                              |
|      | RK       | QTT                | CLASS-BASIN A                               |
|      |          |                    |                                             |

<sup>\*</sup>RESUBMITTED

November 22,1991 Page 3

DataChem Laboratories has a corrective action to report.

Sincerely Fine Peters for Rom Mansden Rom Marsden

Quality Assurance Section Manager

RM/cwe

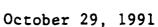
cc: D. Gayer L. Eggenberger T. Mikesell



#### DEPARTMENT OF THE ARMY

### US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401



Technical Support Division

Mr. Ron Marsden DataChem Laboratories 960 West LeVoy Drive Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

Control charts submitted with your letter dated October 4, 1991, for work done in support of the installations listed at the enclosure, under contracts DAAA15-87-D-0017, DAAA15-90-D-0006, DAAA15-90-D-0016, and DAAA15-91-D-0008, have been reviewed.

The following comments apply to this review: BARR ~

χa. Method B9 - Lots PKY and PNT are acceptable.

✓ b. Method LW23 - Lot PRQ is acceptable.

Method JS12 - Lots PLL and PNW are acceptable.

∠d. Method JD21 - Lot PNV is acceptable.

e. Method Y9 - Lot PNX is acceptable.

f. Method LW27 - Lots PSL and PRO are acceptable.

g. Method JD20 - Lot PNU is acceptable.

✓ h. Method LM25 - Lot PRM is acceptable.

 $\star$  i. Method TT09 - Lots PPG, PQF, PTA, and PRD are acceptable.

★ j. Method TF34 - Lot PSZ is acceptable.

 $\checkmark$  k. Method AY8 - Lots PRX and PSE are acceptable.

 $\checkmark$  1. Method AW8A - Lots PRU and PUU are acceptable.

 $\chi$  m. Method TU02 - Lot PVL is acceptable.

Method P8 - The upward trend seems indicative of L n. degrading calibration standards, which should be checked. Lot PSF is acceptable.

 $_{\chi}$  o. Method SS12 - Lot PSU is acceptable.

- ✓p. Method SD18 Lot PSX is acceptable.
- ightharpoonup q. Method CC8 Lots POQ and PSV are acceptable. Lot PSV was not identified on the cover letter but was identified on the method summary as a lot requiring review.
- $\chi$  r. Method UH11 Lot POZ is acceptable. As stated previously, the laboratory needs to ensure that the calibration solutions used have not degraded giving unusually high spike recoveries.
  - ot < s. Method UN01 Lots PRJ, PTC, PTR, and PPN are acceptable.
  - Xt. Method UH20 Lot PSS is acceptable.
  - $\chi$ u. Method SD25 Lot PSY is acceptable.
  - $\times$ v. Method UM25 Lot PSR is acceptable.
  - $\chi$  w. Method AV8 Lot PUS is acceptable.
  - x. Method N8 Lots PUT, PSB, and PVK are acceptable.
  - ∠y. Method UM21 Lots PRA and PSQ are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments should be addressed to Mr. Douglas L. Stevenson at (301) 671-1569/3348.

Sincerely,

Darlene F. Bader

Contracting Officer's

Representative

DAAA15-87-D-0017

Randall J. Cerar

Contracting Officer's

Representative DAAA15-90-D-0016

Contracting Officer's Representative DAAA15-90-D-0006

Eric D. Kauffman

Eric D. Lawifman

James L. McKenna
Contracting Office

Contracting Officer's Representative

DAAA15-91-D-0008

### Copies Furnished (with enclosure):

- Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Building 111, Commerce City, Colorado 80022-2180
- Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177
- Dr. Marilyn Ripin, JAYCOR, 1901 North Beauregard Street, Alexandria, Virginia 22311
- Ms. Carol Sweet, Metcalf and Eddy, Inc., 1201 Peachtree Street, N.E., 400 Colony Square, Suite 1101, Atlanta, Georgia 30361
- Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112 (50)
- Mr. Steve Brown, EA Laboratories, Inc., 15 Loveton Circle, Sparks, Maryland 21152



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5401



Janaury 14, 1997

Technical Support Division

Mr. Stephen P. Spellenberg Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Spellenberg:

The control charts submitted with your letters dated December 6 and 13, 1991, for the work done at Tooele South, Fort Devens, Lone Star and Badger Army Ammunition Plants, Cameron Station, Natick, Sudbury Annex, and Picatinny and Rocky Mountain Arsenals, under contracts DAAA15-87-D-0016, DAAA15-91-D-0008, DAAA15-90-D-0007, DAAA15-90-D-0012, and DAAA15-90-D-0010, have been reviewed.

The following comments apply to the December 6, 1991, submission:

- a. Method SB03 Lot DDM is acceptable.
- b. Method SS16 Lot MEI is acceptable. It appears that several analytes have recoveries above control limits. Iron (Fe) and barium (Ba) should be watch closely to prevent an out-of-control situation from occurring with future data.
  - c. Method TT08 Lot IEJ is acceptable.
- d. Method UM16 Lots SHM, SHO, SHJ, and SHQ are acceptable. The acceptability of lot SHJ will not be reported to Potomac Research, Inc., since the data will not be reported to the Installation Restoration Data Management Information System. This Agency expects to see corrective action measures when the laboratory suspects any problems with the implementation of established methodology.
  - e. Method UW26 Lots ERY and REZ are acceptable.

The following comments apply to the December 13, 1991, submission:

- a. Method LH13 Lots CCV, CCS, CCQ, and CCR are acceptable.
- b. Method SS16 Lot MEJ is acceptable.

- Method TT08 Lots IEL, IEM, IEO, and IEN are acceptable.
- Method UH16 Lots CCT, CCU, CDC, and CDD are acceptable.
- Method UW26 Lots EFA and EFB are acceptable. e.

All data represented in these submissions should be transferred to the U.S. Army Toxic and Hazardous Materials Agency's Installation Restoration Data Management Information System. All data pertaining to Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments should be addressed to Mr. Robert D. Murray at (410) 671-1571/3348.

Sincerely,

Contracting Officer

Representative EAAA15-87-D-0016

Charles A. Lechner Contracting Officer's Representative

DAAA15-90-D-0007

Contracting Officer's Representative DAAA15-90-D-0012

James D. Daniel

James J. McKenna

∨Representative

DAAA15-91-D-0008

Contracting Officer's

Rosemary Austin

Contracting Officer's

Representative DAAA15-90-D-0010

### Copies Furnished:

Program Manager for Rocky Mountain Arsenal, ATTN: AMXRM-LS (Mr. Gregory Mohrman), Building 111, Commerce City, Colorado 80022-2180

Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Mr. Tom Dabrowski, Chem-Nuclear Remediation, Inc.,

743 Horizon Court, Suite 200, Grand Junction, Colorado 81506 Mr. Lawrence Olinger, Woodward-Clyde Federal Services, Inc.,

One Church Street, Suite 404, Rockville, Maryland 20850

Ms. Marcia Meredith, Ecology and Environment, Inc.,

### **Arthur D Little**

Arthur D. Little, Inc.

Acorn Park Cambridge Massact With 62140-2396 USA

Telephone 617 864 5772 Teletax 617 661 5830 Telex 921436

December 6, 1991

Commander

U.S. Army Toxic & Hazardous Materials Agency Attn: CETHA-TS-A/Mr. Robert Murray Aberdeen Proving Ground, Maryland 21010-5401

Dear Mr. Murray:

EC#1178

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached table. In addition, I have enclosed a diskette with the control chart data for these methods.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Stephen'P. Spellenberg

Assistant Program Manager, Environmental Chemistry

tephen P. Spellenberg.

/jmm Enclosure

Paris Riyadh San Francisco São Paulo Singapore Taipei Tokyo Toronto Washington Wiesbaden

Amsterdam Brussels Cambridge

Copenhagen

Hong Kong Houston London

Los Angeles Madrid Ico City

York

Caracas

### Weekly Control Chart Summary

### December 6, 1991

| Lot | Delivery<br>Order | Installation / | Method | Analysis         | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|----------------|--------|------------------|---------------------|-------------------|------------------------------|
| DDM | ABB               | BA             | SB03   | Mercury Water    | 22-Nov-91           | 20                |                              |
| EEY | ABB               | BA             | UW26   | Explosives Water | 22-Nov-91           | 2                 |                              |
| IEJ | ABB               | BA             | TT08   | Ion Chrom Water  | 26-Nov-91           | 17                |                              |
| MEI | ABB               | BA             | SS16   | ICP Water        | 26-Nov-91           | 18                |                              |

ABB Contract Number DAAA15-91-D-008

ekly Control Chart Summary December 6, 1991

| Lot | Delivery<br>Order | Installation | Method | Analysis            | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------------|---------------------|-------------------|------------------------------|
| SHJ | E&E               | DV           | UM16   | Semivoas GCMS Water | 09-Oct-91           | 7                 |                              |
|     |                   |              |        |                     |                     |                   |                              |

E&E Contract Number DAAA15-90-0012

Weekly Control Chart Summary December 6, 1991

| Semivoas GCMS Water | 25-Oct-91           | 2                             |                                 |
|---------------------|---------------------|-------------------------------|---------------------------------|
|                     | Semivoas GCMS Water | Semivoas GCMS Water 25-Oct-91 | Semivoas GCMS Water 25-Oct-91 2 |

WCFS Contract Number DAAA15-90-D-0010

## Yeekly Control Chart Summary December 6, 1991

| Lot | Delivery<br>Order | Installation | Method | Analysis            | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------------|---------------------|----------------------|------------------------------|
|     |                   |              |        |                     |                     |                      |                              |
| EEY | CNES              | TS           | UW26   | Explosives Water    | 22-Nov-91           | 1                    |                              |
| SHQ | CNES              | TS           | UM16   | Semivoas GCMS Water | 25-Oct-91           | 1                    |                              |
|     |                   |              |        |                     |                     |                      |                              |

CNES Contract Number DAAA15-90-D-0007

### Weekly Control Chart Summary

### December 6, 1991

| Lot | Delivery<br>Order | Installation | Method | Analysis            | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------------|---------------------|----------------------|------------------------------|
| SHO | 47                | SD           | UM16   | Semivoas GCMS Water | 30-Oct-91           | 9                    |                              |
| SHM | 48                | NK /         | UM16   | Semivoas GCMS Water | 11-Oct-91           | 2                    |                              |
| EEY | 49                | PI           | UW26   | Explosives Water    | 22-Nov-91           | 5                    |                              |
| DDM | 53                | LS           | SB03   | Mercury Water       | 22-Nov-91           | 13                   |                              |
| EEY | 53                | LS           | UW26   | Explosives Water    | 22-Nov-91           | 2                    |                              |
| EEZ | 53                | LS           | UW26   | Explosives Water    | 12-Dec-91           | 11                   |                              |
| MEI | 53                | LS           | SS16   | ICP Water           | 26-Nov-91           | 8                    |                              |

CLASS

### **Arthur D Little**

Arthur D. Little, Inc.

Acom Park Campriage Massacr usetti 02140-2390 msx

Teleprone 617 864 5770 Telefax 617 661 5830 Telex 921436

December 13, 1991

Commander
U.S. Army Toxic & Hazardous Materials Agency
Attn: CETHA-TS-A/Mr. Robert Murray
Aberdeen Proving Ground, Maryland
21010-5401

Amsterdam Brussels Cambridge

Caracas Copenhagen Hong Kong Houston

London Los Angeles Madrid Mexico City

Milan York

San Francisco São Paulo Singapore Taipei

Tokyo Toronto Washington Wiesbaden Dear Mr. Murray:

EC#1203

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached table. In addition, I have enclosed a diskette with the control chart data for these methods.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Theodore A. Olsson

they A. Ol

Manager, Environmental Chemistry

Chemical Sciences Section

/jmm Enclosure Weekly Control Chart Summary

December 13, 1991

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| CCT | 47                | SD           | UH16   | Pest/PCB Water  | 17-Nov-91           | 13                |                              |
| IEM | 52                | RK           | TT08   | Ion Chrom Water | 04-Dec-91           | 9                 |                              |
| MEJ | 53                | LS           | SS16   | ICP Water       | 04-Dec-91           | 5                 |                              |

## kly Control Chart Summary

### December 13, 1991

| Lot        | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|------------|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| EFA        | ABB               | BA           | UW26   | Explosives Wate | 05-Dec-91           | 15                |                              |
| EFB        | ABB               | BA           | UW26   | Explosives Wate | 06-Dec-91           | 14                |                              |
| IEL        | ABB               | BA           | TT08   | Ion Chrom Water | 03-Dec-91           | 20                |                              |
| <b>IEM</b> | ABB               | BA           | TT08   | Ion Chrom Water | 04-Dec-91           | 8                 |                              |
| IEO        | ABB               | BA           | TT08   | Ion Chrom Water | 08-Dec-91           | 14                |                              |
| MEJ        | ABB               | BA           | SS16   | ICP Water       | 04-Dec-91           | 2                 | <del></del>                  |

ABB Contract Number DAAA15-91-D-008

### Weekly Control Chart Summary December 13, 1991

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| IEM | E&E               | DV           | TT08   | Ion Chrom Water | 04-Dec-91           | 2                 |                              |
| IEN | E&E               | DV           | TT08   | Ion Chrom Water | 06-Dec-91           | 16                |                              |
| ΙΕΌ | E&E               | DV           | TT08   | Ion Chrom Water | 08-Dec-91           | 3                 |                              |

E&E Contract Number DAAA15-90-0012

### ekly Control Chart Summary

December 13, 1991

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| CCQ | WCFS              | CM           | LH13   | Pest/PCB Soil E | 05-Nov-91           | 10                | 27-Nov-91                    |
| CCR | WCFS              | <u>CM</u>    | LH13   | Pest/PCB Soil E | 06-Nov-91           | 13                | 27-Nov-91                    |
| CCS | WCFS              | CM           | LH13   | Pest/PCB Soil E | 13-Nov-91           | 12                |                              |
| CCU | WCFS              | CM           | UH16 - | Pest/PCB Water  | 17-Nov-91           | 2                 |                              |
| CCV | WCFS              | CM           | LH13   | Pest/PCB Soil E | 14-Nov-91           | 4                 |                              |
| CDC | WCFS              | CM           | UH16   | Pest/PCB Water  | 19-Nov-91           | 6                 |                              |
| CDD | WCFS              | CM           | UH16   | Pest/PCB Water  | 19-Nov-91           | 14                |                              |

WCFS Contract Number DAAA15-90-D-0010



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND. MARYLAND 21010-5401

January 15, 1992



Technical Support Division

Mr. Theodore Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission dated December 20, 1991, under contract numbers DAAA15-87-D-0016, DAAA15-90-D-0012, and DAAA15-91-D-0008, has been reviewed. The methods, lots, and installations are listed at the enclosure.

### Comments are as follows:

- a. Method SB03 Lots DDN and DDO are acceptable.
- b. Method SD24 Lots FJG, FKN, FKP, FKL, FKQ, FKM, and FKS are acceptable. The laboratory should closely monitor the upward trend of the high spike for analyte AS to prevent further out-of-control situations. You are reminded that an explanation, for any change, to the data in the control chart program must be provided with the commentary.
- c. Method SS16 Lot MEK is acceptable. Recoveries for barium should be monitored due to the variability of the high spike recoveries. Results of the investigation into the extremely high low spike recoveries for chromium and iron (224 and 308 percents) respectively, should be provided to this Agency. It is expected that the laboratory will take the necessary action to bring these recoveries under control.
- d. Method TT08 Lots IEV and IEU are acceptable. Lot IES is acceptable provided that fluoride is marked with a flagging code of "N." The low spike trend for NO2 should be monitored and appropriate action taken prior to an out-of-control event occurring. This Agency concurs with the action taken by the laboratory to alleviate the upward trend of the low spike for PO4.
  - e. Method UM33 Lots VGU, VGV, and VGW are acceptable.

f. Method UW26 - Lot EFC is acceptable. The low spike recovery for TETRYL is lower than previous data and should be monitored with future lots.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data for Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Question or comments concerning this review should be addressed to Ms. Darlene F. Bader at (410) 671-1573/3348.

Sincerely,

Robert D. Murray )
Contracting Officer's

Representative DAAA15-87-D-0016

James D. Daniel

Contracting Officer's

Representative DAAA15-90-D-0012

James J. McKenna
Contracting Officer's
Representative

DAAA15-91-D-0008

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, ATTN: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177

Ms. Marcia Meredith, Ecology and Environment, 368 Pleasantview Drive, Lancaster, New York 14086

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112

## Weekly Control Chart Summary

## December 20, 1991

| Lot | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|------------------|---------------------|----------------------|------------------------------|
| FJV | 45                | LS           | SD24-AG | Graphite Furnace | 03-Oct-91           | 1                    | 01-Nov-91                    |
| FJV | 48                | NK           | SD24-AG | Graphite Furnace | 03-Oct-91           | 2                    | 01-Nov-91                    |
| EFC | 49                | PI           | UW26    | Explosives Water | 13-Dec-91           | 5                    |                              |
| IES | 52                | RK           | TT08    | Ion Chrom Water  | 10-Dec-91           | 10                   |                              |
| FKL | 53                | LS           | SD24-AS | Graphite Furnace | 04-Dec-91           | 8                    |                              |
| FKM | 53                | LS           | SD24-SE | Graphite Furnace | 04-Dec-91           | 8                    |                              |
| FKN | 53                | LS           | SD24-AG | Graphite Furnace | 09-Dec-91           | 8                    |                              |
| FKP | 53                | LS           | SD24-AG | Graphite Furnace | 09-Dec-91           | 5                    |                              |
| FKQ | 53                | LS           | SD24-AS | Graphite Furnace | 05-Dec-91           | 5                    |                              |
| FKS | 53                | LS           | SD24-SE | Graphite Furnace | 05-Dec-91           | _ 5                  |                              |

# Veekly Control Chart Summary December 20, 1991

| Lot | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|------------------|---------------------|----------------------|------------------------------|
| DDN | E&E               | DV           | SB03    | Mercury Water    | 09-Dec-91           | 6                    |                              |
| DDO | E&E               | DV           | SB03    | Mercury Water    | 13-Dec-91           | 12                   |                              |
| EFC | E&E               | DV           | UW26    | Explosives Water | 13-Dec-91           | 12                   |                              |
| FJV | E&E               | DV           | SD24-AG | Graphite Furnace | 03-Oct-91           | 12                   | 01-Nov-91                    |
| IES | E&E               | DV           | TT08    | Ion Chrom Water  | 10-Dec-91           | 13                   |                              |
| IEU | E&E               | DV           | TT08    | Ion Chrom Water  | 12-Dec-91           | 6                    |                              |
| ΙΈV | E&E               | DV           | TT08    | Ion Chrom Water  | 13-Dec-91           | 3                    |                              |

E&E Contract Number DAAA15-90-0012

# Weekly Control Chart Summary December 20, 1991

| Lot | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|------------------|---------------------|-------------------|------------------------------|
| DDN | ABB               | BA           | SB03    | Mercury Water    | 09-Dec-91           | 20                |                              |
| DDO | ABB               | BA           | SB03    | Mercury Water    | 13-Dec-91           | 17                |                              |
| FKL | ABB               | BA           | SD24-AS | Graphite Furnace | 04-Dec-91           | 8                 |                              |
| FKM | ABB               | BA           | SD24-SE | Graphite Furnace | 04-Dec-91           | 8                 |                              |
| FKN | ABB               | BA           | SD24-AG | Graphite Furnace | 09-Dec-91           | 8                 |                              |
| FKP | ABB               | BA           | SD24-AG | Graphite Furnace | 09-Dec-91           | 15                |                              |
| FKQ | ABB               | BA           | SD24-AS | Graphite Furnace | 05-Dec-91           | 15                |                              |
| FKS | ABB               | BA           | SD24-SE | Graphite Furnace | 05-Dec-91           | 15                |                              |
| ŒU  | ABB               | BA           | TT08    | ion Chrom Water  | 12-Dec-91           | 12                |                              |
| MEK | ABB               | BA           | SS16    | ICP Water        | 12-Dec-91           | 30                |                              |
| VGU | ABB               | BA           | UM33    | Voas GCMS Water  | 19-Nov-91           | 11                |                              |
| VGV | ABB               | BA           | UM33    | Voas GCMS Water  | 20-Nov-91           | 10                |                              |
| VGW | ABB               | BA           | UM33    | Voas GCMS Water  | 22-Nov-91           | 9                 |                              |

ABB Contract Number DAAA15-91-D-008



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5401

January 23, 1992



Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Reference is made to your control chart submission dated November 15, 1991, under contract numbers DAAA15-87-D-0016, DAAA15-91-D-0008, DAAA15-90-D-0007, DAAA15-90-D-0010, and DAAA15-90-D-0012. The installations are at the enclosure.

Subject control charts were reviewed with results as follows:

- a. Method LM16 Lots VGN, VGO, and VGP are acceptable.
- b. Lot DDl (method SB03); lot LAH (method LW29); lot FJX (method JD13); lot SHI (method UM16); lots VGR and VGS (method UM17); and lots SHC, SHE, SHF and SHH (method LM15) were reviewed and found acceptable in a previous letter dated December 11, 1991.

Potomac Research, Inc., has been advised that the in-control lots, as noted above, are cleared for additional processing.

Questions concerning this review should be directed to Mr. Ivan C. Sosa at (410) 671-1577/3348.

Sincerely,

Robert D. Murray Contracting Officer's Representative

DAAA15-87-D-0016

Charles A. Lechner Contracting Officer's Representative DAAA15-90-D-0007 Rosemary Austin
Contracting Officer's
Representative
DAAA15-90-D-0010

James D. Daniel Contracting Officer's Representative DAAA15-90-D-0012

(/Contracting Officer's Representative DAAA15-91-D-0008

#### Enclosure

Copies Furnished (with enclosure):

Mr. Stephen Spellenberg, Arthur D. Little, Inc., 15 Acorn Park, Cambridge, Massachusetts 02140-2390
Mr. Larry Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 20850
Ms. Marcia Meredith, Ecology and Environment, Inc., 368 Pleasantview Drive, Lancaster, New York 14086
Mr. Tom Dabrowski, Chem-Nuclear Remediation, Inc., 743 Horizon Court, Suite 200, Grand Junction, Colorado 81506
Mr. Jeff Pickett, ABB Environmental, Inc., 261 Commercial Street, P.O. Box 7050, Portland, Maine 04112

James J. McKenna

November 15, 1991

| Lot   | Delivery<br>Order | rder |         | Analysis        | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report          |  |
|-------|-------------------|------|---------|-----------------|---------------------|----------------------|---------------------------------------|--|
| DDL   | WCFS              | CM   | SB03    | Mercury Water   | 08-Nov-91           | 20                   |                                       |  |
| FJX   | 45                | LS   | JD13-AS | Graphite Furn S | 07-Oct-91           | 19                   |                                       |  |
| FJX . | 48                | NK   | JD13-AS | Graphite Furn S | 07-Oct-91           | 2                    |                                       |  |
| LAH   | WCFS              | CM   | LW29    | Herbicides/Soil | 29-Oct-91           | 4                    |                                       |  |
| SHC   | E&E               | DV   | LM15    | Semivoas GCMS S | 20-Sep-91           | 5                    |                                       |  |
| SHE   | 48                | NK   | LM15    | Semivoas GCMS S | 24-Sep-91           | 2                    |                                       |  |
| SHE   | CNES              | TS   | LM15    | Semivoas GCMS S | 24-Sep-91           | 1                    |                                       |  |
| SHE   | E&E               | DV   | LM15    | Semivoas GCMS S | 24-Sep-91           | 1                    |                                       |  |
| SHF   | WCFS              | CM   | LM15    | Semivoas GCMS S | 25-Sep-91           | 10                   |                                       |  |
| SHG   | E&E               | DV   | LM15    | Semivoas GCMS S | 24-Sep-91           | 8                    | · · · · · · · · · · · · · · · · · · · |  |
| SHH   | WCFS              | CM   | LM15    | Semivoas GCMS S | 08-Oct-91           | 13                   |                                       |  |
| SHI   | ABB               | BA   | UM16    | Semivoas GCMS W | 23-Sep-91           | 1                    |                                       |  |
| VGN   | WCFS              | CM   | LM16    | Voas GCMS Soil  | 10-Oct-91           | 12                   | <del></del>                           |  |
| VGO   | WCFS              | CM   | LM16    | Voas GCMS Soil  | 11-Oct-91           | 10                   |                                       |  |
| VGP   | WCFS              | CM   | LM16    | Voas GCMS Soil  | 16-Oct-91           | 10                   |                                       |  |
| VGR   | WCFS              | CM   | UM17    | Voas GCMS Water | 25-Oct-91           | 11                   |                                       |  |
| VGS   | WCFS              | CM   | UM17    | Voas GCMS Water | 29-Oct-91           | 10                   | <del></del>                           |  |

ABB Contract Number DAAA15-91-D-008
CNES Contract Number DAAA15-90-D-0007
E&E Contract Number DAAA15-90-0012
WCFS Contract Number DAAA15-90-D-001

Enclosure



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND MARYLAND 21010-5401

January 29, 1992



Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

The control charts submitted with your letter dated January 3, 1992, under contract numbers DAAA15-87-0017, DAAA15-91-D-0008, DAAA15-90-D-0008, DAAA15-90-0016, and DAAA15-90-0009, have been reviewed. The methods, lots, and installations are included at the enclosure.

The following comments apply to this submission:

- a. Method B9 Lot QOC is acceptable.
- b. Method KF15 Lots RKN and RLT are acceptable.
- c. Method JD21 Lot QTJ is acceptable.
- d. Method KF17 Lot RPP is acceptable.
- e. Method LN08 Lot QSP is acceptable.
- f. Method JD20 Lots QPP and QTL are acceptable.
- g. Method NN9 Lot ROS is acceptable. Based on the comment that field samples are reported as "less than," this lot is acceptable. DataChem Laboratories should investigate the cause of the high recoveries for the low spikes.
- h. Method LM23 Lots RJH, RLV, RMD, RNV, RPC, and RPL are acceptable.
  - i. Method AX8 Lot QRR is acceptable.

- j. Method TF34 Lots RLD, RPG, ROA, and RMR, are acceptable.
  - k. Method AY8 Lot RRZ is acceptable.
  - 1. Nethod UW25 Lots RJA and ROZ are acceptable.
  - m. Method SS12 Lots QOM, QQF, QKN, and RHT are acceptable.
  - n. Method CC8 Lots RFQ, RRB, and RJC are acceptable.
  - o. Method LL8 Lot RNN is acceptable.
- p. Method UN01 Lots RJV and RBV are acceptable. However, lot QSL is rejected and should be reported as method "99."
  - q. Method KK8 Lots RBB, RCA, RNW, and RJR are acceptable.
- r. Method AAA8 Lots RMO, RQU, and RSA are acceptable. Sample BTZ, lot RMO, is rejected and should be reported as method "99."
- s. Method UH20 Lots RBK and RFR are acceptable. This Agency agrees that chlordane, lot RFR, should be reported as method "99" in a separate lot.
  - t. Method SD25 Lot QRS is acceptable.
  - u. Method AV8 Lot RSF is acceptable.
- v. Method N8 Lots RJQ, RNZ, RSE, RMQ, and RQX are acceptable.
  - w. Method UM21 Lots ROY, RPF, RQB, and RQI are acceptable.
- All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data for Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments concerning this review should be directed to Ms. Brenda P. Little at (410) 671-1575/3348.

Sincerely,

Darlene F. Bader

Contracting Officer's Representative DAAA15-87-D-0017

Dominique K. Edwards
Contracting Officer's
Representative
DAAA15-90-D-0008

James J. McKenna Contracting Officer's Representative DAAA15-91-D-0008

Randall J. Cerar Contracting Officer's Representative DAAA15-90-D-0016

Conrad L. Swann
Contracting Officer's
Representative
DAAA15-::-D-0009

### Enclosure

Copies Furnished (with enclosure):

Ms. Gail DeRuzzo, Roy F. Weston, Inc., 208 Welsh Pool Road, Lionville, Pennsylvania 19341-1313

Program Manager for Rocky Mountain Arsenal, ATTN: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177

Mr. Steve Brown, EA Laboratories, 19 Loveton Circle, Sparks, Maryland 21152

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112

Mr. Bruce King, Engineering Science, Inc., 75 North Fair Oaks Avenue, Pasadena, California 91103

Ms. Carol Sweet, Metcalf & Eddy, Inc., 1201 Peachtree Street N.E., 400 Colony Square, Suite 1101, Atlanta, Georgia 30361 Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547



January 3,1992 Refer to: 91A285

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0061,62,63,64,65(CLASS)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

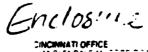
Contract #: DAAA-15-90-D-0008(ENGINEERING SCIENCE)

Contract #: DAAA-15-90-0016(METCALF & EDDY)

Contract #: DAAA-15-90-0009(ROY F. WESTON)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method # | Installation | Lot #          | Contractor             |
|----------|--------------|----------------|------------------------|
| B9       | AM           | QOC            | WESTON                 |
| KF15     | LX           | RKN, RLT       | METCALF & EDDY         |
| JD21     | LX           | QTJ            | METCALF & EDDY         |
| KF17     | RK           | RPP            | WOODWARD CLYDE         |
| LN08     | BA           | QSP            | E.A. ENGINEERING       |
| JD20     | LX           | QPP,QTL        | METCALF & EDDY         |
| NN9      | RK           | ROS            | WOODWARD CLYDE         |
| LM23     | LX           | RJH, RLV       | METCALF & EDDY         |
|          | DE           | RMD            | TEPS                   |
|          | RK           | RNV            | WOODWARD CLYDE         |
|          | SB           | RPC, RPL       | HARDING LAWSON         |
| 8XA      | LX           | ORR            | METCALF & EDDY         |
| TF34     | LX           | RLD, RPG, ROA, | METCALF & EDDY         |
|          |              | RMR            |                        |
|          | AM           | RPG, ROA, RMR  | WESTON                 |
|          | RK           | RMR            | CLASS-NORTH BOUNDARY   |
| AY8      | RK           | RRZ            | CLASS-SEWAGE TREATMENT |



January 3,1992 Page 2

| UW25  | SB  | RJA            | HARDING LAWSON         |
|-------|-----|----------------|------------------------|
|       | AM  | ROZ            | WESTON                 |
| SS12  | MA  | QOM            | WESTON                 |
|       | TY  | QQF            | E.A. ENGINEERING       |
|       | BA  | QKN            | E.A. ENGINEERING       |
|       | LX  | RHT            | METCALF & EDDY         |
| CC8   | LX  | RFQ            | METCALF & EDDY         |
|       | RK  | RRB            | CLASS-NORTH BOUNDARY   |
|       | SB  | RJC            | HARDING LAWSON         |
| LL8   | AM  | RNN            | WESTON                 |
| UN01  | RK  | QSL, RJV       | CLASS-SEWAGE TREATMENT |
|       | RK  | RBV            | HARDING LAWSON         |
| KK8   | RK  | RBB, RCA       | HARDING LAWSON         |
|       | RK  | RNW, RJR       | CLASS-SEWAGE TREATMENT |
| AAA8  | RK  | RMO, RQU       | CLASS-NORTH BOUNDARY   |
|       | RK  | RSA            | CLASS-BASIN A          |
| UH20  | TY  | RBK            | E.A. ENGINEERING       |
| 020   | LX  | RFR            | METCALF & EDDY         |
| SD25  | LX  | QRS            | METCALF & EDDY         |
| AV8   | RK  | RSF            | CLASS-BASIN A          |
| N8    | RK  | RJQ            | CLASS-SEWAGE TREATMENT |
|       | RK  | RNZ, RSE       | CLASS-BASIN A          |
|       | RK  | RMQ, RQX       | CLASS-NORTH BOUNDARY   |
| UM21  | AM  | ROY, RPF, RQB, | WESTON                 |
| 01121 | MI  | RQI            | W <b>20 7 014</b>      |
|       | LX  |                | METCALF & EDDY         |
|       | DA. | ROY, RQB       | MEICABI & BDDI         |

DataChem Laboratories has no corrective action to report. Sincerely,

Ron Marsden Quality Assurance Section Manager

### RM/cwe

cc: D. Gayer L. Eggenberger T. Mikesell



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND. MARYLAND 21010-5401



ENTION OF February 4, 1992

Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission, dated January 10, 1992, under contract numbers DAAA15-87-D-0016, DAAA15-90-D-0012, DAAA15-90-D-0010, and DAAA15-91-D-0008, has been reviewed. Methods, lots, and installations are listed at the enclosure.

#### Comments are as follows:

- a. Method LM15 This Agency concurs with the recommendation that lot SHV be submitted as method "99" due to missed holding time for extraction. The field sample cannot be flagged "K" until more information is provided on the extent of the holding time violation and analyte recoveries. The flagging code "K" indicates that data quality is not affected; your commentary does not attest to that fact.
- b. Method SD24 Lots FKK, FKR, and KKX are acceptable. The laboratory should monitor the downward trend of the low spike for Pb.
  - c. Method SS16 Lot MEM is acceptable.
  - d. Method TT08 Lots IFC and IFE are acceptable.
- e. Method UH16 Lot CDB is unacceptable and should be reported, as recommended by the laboratory, as method "99." Additional samples should be analyzed. Irregardless that the spikes were initially analyzed on the wrong columns (PCB on pesticide, pesticide on PCB), the data are not considered valid since the quality control spikes were reanalyzed outside of holding time. Your commentary did not address corrective actions taken to ensure that this situation would not occur again.

- f. Method UW16 Lot SHT is acceptable. Recoveries for DEPD4 and DNOPD4 should be monitored closely to prevent an out-of-control situation from arising.
  - g. Method UM33 Lots VHJ, VHK, VHI, and VHL are acceptable.
  - h. Method UN06 Lots GAN and GAO are acceptable.
  - i. Method UW26 Lots EFD, EFE, and EFF are acceptable.

Since method UM33 is a recertified version of UM17, it is expected that the laboratory will begin the generation of new control charts. It is no longer an acceptable practice to continue to submit data for UM33 under control charts titled UM17.

Potomac Research, Inc., has been advised that the in-control lots, as noted above, are cleared for additional processing.

Questions concerning this review should be directed to Ms. Darlene Bader at (410) 671-1573/3348.

Sincerely,

Robert D. Murray

Contracting Officer's

Representative DAAA15-87-D-0016

James J. McKenna

Contracting Officer's

Representative DAAA15-91-D-0008

James D. Daniel

Rosemary Anstin

DAAA15-90-D-0010

Contracting Officer's

Contracting Officer's

Representative

Representative DAAA15-90-D-0012

#### Enclosure

Copies Furnished (with enclosure):

Mr. Larry Olinger, Woodward-Clyde Federal Services, Inc.,
One Church Street, Suite 404, Rockville, Maryland 20850
Ms. Marcia Meredith, Ecology and Environment, Inc.,
368 Pleasantview Drive, Lancaster, New York 14086
Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial 
Street, Portland, Maine 04112

# eekly Control Chart Summary

## January 10, 1992

| Lot | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|------------------|---------------------|----------------------|------------------------------|
| FKR | 53                | LS           | SD24-PB | Graphite Furnace | 11-Dec-91           | 5                    |                              |
| FKK | 53                | LS           | SD24-PB | Graphite Furnace | 10-Dec-91           | 8                    |                              |
|     |                   |              |         | •                |                     |                      |                              |

Weekly Control Chart Summary January 10, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| VHK | E&E               | DV           | UM33   | Voas GCMS Water | 16-Dec-91           | 8                 |                              |
| VHL | E&E               | DV           | UM33   | Voas GCMS Water | 17-Dec-91           | 7                 |                              |
| VHJ | E&E               | DV           | UM33   | Voas GCMS Water | 13-Dec-91           | 4                 |                              |
| VHD | E&E               | DV           | UM33   | Voas GCMS Water | 09-Dec-91           | 8                 |                              |
| VHG | E&E               | DV           | UM33   | Voas GCMS Water | 10-Dec-91           | 14                |                              |

E&E Contract Number DAAA15-90-0012

# eekly Control Chart Summary January 10, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis            | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------------|---------------------|-------------------|------------------------------|
| CDB | WCFS              | СМ           | UH16   | Pest/PCB Water      | 18-Nov-91           | 4                 |                              |
| SHV | WCFS              | CM           | LM15   | Semivoa_ GCMS Soil  | 03-Dec-91           | 1                 |                              |
| SHT | WCFS              | СМ           | UM16   | Semivoas GCMS Water | 04-Nov-91           | 9                 |                              |

WCFS Contract Number DAAA15-90-D-0010

| Lot | Delivery<br>Order | Order |         | Method Analysis  |                    | Number of Samples | Previous<br>Weekly<br>Report |  |
|-----|-------------------|-------|---------|------------------|--------------------|-------------------|------------------------------|--|
| EFF | ABB               | BA    | UW26    | Explosives Water | Analysis 24-Dec-91 | 11                |                              |  |
| EFE | ABB               | BA    | UW26    | Explosives Water | 23-Dec-91          | 18                |                              |  |
| EFD | ABB               | BA    | UW26    | Explosives Water | 18-Dec-91          | 17                |                              |  |
| FKX | ABB               | BA    | SD24-PB | Graphite Furnace | 17-Dec-91          | 30                |                              |  |
| FKR | ABB               | BA    | SD24-PB | Graphite Furnace | 11-Dec-91          | 22                |                              |  |
| FKK | ABB               | BA    | SD24-PB | Graphite Furnace | 10-Dec-91          | 18                |                              |  |
| MEM | ABB               | BA    | SS16-C  | ICP Water        | 30-Dec-91          | 33                |                              |  |
| IFE | ABB               | BA    | TT08    | Ion Chrom Water  | 06-Jan-92          | 25                |                              |  |
| IFC | ABB               | BA    | TT08    | Ion Chrom Water  | 02-Jan-92          | 25                |                              |  |
| GAN | ABB               | BA    | UN06    | Nitrosamines GC  | 02-Jan-92          | 16                |                              |  |
| GAO | ABB               | BA    | UN06    | Nitrosamines GC  | 02-Jan-92          | 10                |                              |  |
| VHJ | ABB               | BA    | UM33    | Voas GCMS Water  | 13-Dec-91          | 6                 |                              |  |
| VHL | ABB               | BA    | UM33    | Voas GCMS Water  | 17-Dec-91          | 8                 |                              |  |
| VHI | ABB               | BA    | UM33    | Voas GCMS Water  | 11-Dec-91          | 14                |                              |  |
| VHF | ABB               | BA    | UM33    | Voas GCMS Water  | 09-Dec-91          | 13                |                              |  |
| VHH | ABB               | BA    | UM33    | Voas GCMS Water  | 10-Dec-91          | 11                |                              |  |

ABB Contract Number DAAA15-91-D-008



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND. MARYLAND 21010-5401



February 4, 1992

Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

The control charts submitted with your letters dated January 6, 1992, under contract numbers DAAA15-87-D-0016, DAAA15-91-D-0008, DAAA15-90-D-0010, and DAAA15-90-D-0012, have been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method SB03 Lots DDG and DDP are acceptable.
- b. Method SD24 Lot FKW is acceptable.
- c. Method TF10 Lots IEK, IEQ, IER, IEW, IEY, and IFB are acceptable.
  - d. Method TT08 Lots IFA and IEZ are acceptable.
- e. Method UM33 Lots VGX, VGY, VHA, VHB, VHC, and VHE are acceptable.
- f. Method UN06 Lots GAI, GAJ, GAK, GAL, and GAM are acceptable.
- g. Method UM16 Lots SHR and SHS are acceptable. The results reported to the Installation Restoration Data Management Information System (IRDMIS) for lot SHR should be those obtained during the first extraction. Do not report the results that were extracted out of hold time.

All data represented in this submission should be transferred to the U.S. Army Toxic and Hazardous Materials Agency's IRDMIS. All data pertaining to Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments should be addressed to Mr. Robert D. Murray at (410) 671-1571/3348.

Sincerely,

Robert D. Murray/ Contracting Officer's Representative DAAA15-87-D-0016

Rosemary Axistin
Contracting Officer's
Representative
DAAA15-90-D-0010

Contracting Officer's
Representative
DAAA15-91-D-0008

James D. Daniel
Contracting Officer's
Representative
DAAA15-90-D-0012

### Enclosure

Copies Furnished (with enclosure):

Ms. Mary Ann Kosciewicz, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112 Mr. Lawrence Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 20850 Ms. Marcia Meredith, Ecology and Environmental, Inc., 368 Pleasantview Drive, Lancaster, New York 14086

# Arthur D. Little, Inc. USATHAMA Weekly QC Report - January 6, 1992

| Lot | Delivery<br>Order |    | Case<br>Number | Method | Analysis        | <ul> <li>Colore and the control of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the c</li></ul> | Number of<br>Samples |
|-----|-------------------|----|----------------|--------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| DDP | E&E               | DV | 66523          | SB03   | Mercury Water   | 31-Dec-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 16                   |
| IFA | E&E               | DV | 66523          | TT08   | Ion Chrom Water | 19-Dec-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3                    |
| SHR | E&E               | DV | 66523          | UM16   | Semivoas GCMS   | 30-Oct-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8                    |

Arthur D. Little, Inc. USATHAMA Weekly QC Report - January 6, 1992

| Lot | Delivery<br>Order | Installation | Case<br>Number | Method | Analysis        | Date of Analysis | Number of<br>Samples |
|-----|-------------------|--------------|----------------|--------|-----------------|------------------|----------------------|
| 2   | Club              |              | 14/B/MOO!      |        |                 | //               |                      |
| DDP | ABB               | BA           | 40127          | SB03   | Mercury Water   | 31-Dec-91        | 14                   |
| FKW | ABB               | BA           | 40127          | SD24-A | Graphite Furnac | 16-Dec-91        | 19                   |
| IEK | ABB               | BA           | 40127          | TF10   | Nitrogen Water  | 13-Dec-91        | 41                   |
| IEQ | ABB               | BA           | 40127          | TF10   | Nitrogen Water  | 02-Jan-92        | 23                   |
| IER | ABB               | BA           | 40127          | TF10   | Nitrogen Water  | 02-Jan-92        | 35                   |
| IEW | ABB               | BA           | 40127          | TF10   | Nitrogen Water  | 17-Dec-91        | 43                   |
| ΙΕΥ | ABB               | BA           | 40127          | TF10   | Nitrogen Water  | 17-Dec-91        | 40                   |
| IFB | ABB               | BA           | 40127          | TF10   | Nitrogen Water  | 03-Jan-92        | 20                   |
| IEZ | ABB               | BA           | 40127          | TT08   | Ion Chrom Water | 18-Dec-91        | 15                   |
| VGX | ABB               | BA           | 40127          | UM33   | Voas GCMS Water | 24-Dec-91        | 7                    |
| VGY | ABB               | BA           | 40127          | UM33   | Voas GCMS Water |                  | 11                   |
| VHA | ABB               | BA           | 40127          | UM33   | Voas GCMS Water |                  | 5                    |
| VHB | ABB               | BA           | 40127          | UM33   | Voas GCMS Water |                  | 6                    |
| VHC |                   | BA           | 40127          | UM33   | Voas GCMS Water |                  | 10                   |
| VHE | L                 | BA           | 40127          | UM33   | Voas GCMS Water |                  | 9                    |
| GAI | ABB               | BA           | 40127          | UN06   | Nitrosamines GC | 16-Dec-91        | 10                   |
| GAJ | ABB               | BA           | 40127          | UN06   | Nitrosamines GC | 11-Dec-91        | 7                    |
| GAK | 1                 | BA           | 40127          | UN06   | Nitrosamines GC | 12-Dec-91        | 11                   |
| GAL | ABB               | BA           | 40127          | UN06   | Nitrosamines GC | 17-Dec-91        | 14                   |
| GAM | 1                 | BA           | 40127          | UN06   | Nitrosamines GC | 19-Dec-91        | 17                   |

rthur D. Little, Inc. USATHAMA Weekly QC Report - January 6, 1992

|     | Delivery<br>Order | Installation | Case<br>Number | Method | Analysis      | Date of<br>Analysis | Number of<br>Samples |
|-----|-------------------|--------------|----------------|--------|---------------|---------------------|----------------------|
| SHS | WCFS              | СМ           | 67841          | UM16   | Semivoas GCMS | 01-Nov-91           | 13                   |

# Arthur D. Little, Inc. USATHAMA Weekly QC Report - January 6, 1992

| Lot | Delivery<br>Order |    | Case<br>Number | Method | Analysis        | Date of<br>Analysis | Number of Samples |
|-----|-------------------|----|----------------|--------|-----------------|---------------------|-------------------|
| VHB | 48                | NK | 64278          | UM33   | Voas GCMS Water | 06-Dec-91           | 3                 |
| IEZ | 50                | RK | 64280          | TT08   | ion Chrom Water | 18-Dec-91           | 7                 |
| IFA | 50                | RK | 64280          | TT08   | Ion Chrom Water | 19-Dec-91           | 8                 |
| IEQ | 53                | LS | 64283          | TF10   | Nitrogen Water  | 31-Dec-91           | 13                |



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND, MARYLAND 210:0-5401



REPLY TO ATTENTION OF

February 4, 1992

Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission, dated January 10, 1992, under contract numbers DAAA15-87-D-0016, DAAA15-90-D-0012, DAAA15-90-D-0010, and DAAA15-91-D-0008, has been reviewed. Methods, lots, and installations are listed at the enclosure.

### Comments are as follows:

- a. Method LM15 This Agency concurs with the recommendation that lot SHV be submitted as method "99" due to missed holding time for extraction. The field sample cannot be flagged "K" until more information is provided on the extent of the holding time violation and analyte recoveries. The flagging code "K" indicates that data quality is not affected; your commentary does not attest to that fact.
- b. Method SD24 Lots FKK, FKR, and KKX are acceptable. The laboratory should monitor the downward trend of the low spike for Pb.
  - c. Method SS16 Lot MEM is acceptable.
  - d. Method TT08 Lots IFC and IFE are acceptable.
- e. Method UH16 Lot CDB is unacceptable and should be reported, as recommended by the laboratory, as method "99." Additional samples should be analyzed. Irregardless that the spikes were initially analyzed on the wrong columns (PCB on pesticide, pesticide on PCB), the data are not considered valid since the quality control spikes were reanalyzed outside of holding time. Your commentary did not address corrective actions taken to ensure that this situation would not occur again.

- Method UW16 Lot SHT is acceptable. Recoveries for DEPD4 and DNOPD4 should be monitored closely to prevent an outof-control situation from arising.
  - Method UM33 Lots VHJ, VHK, VHI, and VHL are acceptable. g.
  - Method UN06 Lots GAN and GAO are acceptable. h.
  - Method UW26 Lots EFD, EFE, and EFF are acceptable.

Since method UM33 is a recertified version of UM17, it is expected that the laboratory will begin the generation of new control charts. It is no longer an acceptable practice to continue to submit data for UM33 under control charts titled UM17.

Potomac Research, Inc., has been advised that the in-control lots, as noted above, are cleared for additional processing.

Questions concerning this review should be directed to Ms. Darlene Bader at (410) 671-1573/3348.

Sincerely,

Contracting Officer's

Representative DAAA15-87-D-0016

ames J. McKenna

Contracting Officer's

Representative DAAA15-91-D-0008

Rosemary Austin Contracting Officer's Representative

DAAA15-90-D-0010

James D. Daniel

Contracting Officer's

Representative DAAA15-90-D-0012

#### Enclosure

Copies Furnished (with enclosure):

Mr. Larry Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 20850 Ms. Marcia Meredith, Ecology and Environment, Inc., 368 Pleasantview Drive, Lancaster, New York 14086

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial 🗸 Street, Portland, Maine 04112

Veekly Control Chart Summary

January 10, 1992

| Lot | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|------------------|---------------------|----------------------|------------------------------|
| FKR | 53                | LS           | SD24-PB | Graphite Furnace | 11-Dec-91           | 5                    |                              |
| FKK | 53                | LS           |         | Graphite Furnace | 10-Dec-91           | 8                    |                              |
|     |                   |              |         |                  |                     |                      |                              |

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Weekly Control Chart Summary January 10, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| VHK | E&E               | DV           | UM33   | Voas GCMS Water | 16-Dec-91           | 8                 |                              |
| VHL | E&E               | DV           | UM33   | Voas GCMS Water | 17-Dec-91           | 7                 |                              |
| VHJ | E&E               | DV           | UM33   | Voas GCMS Water | 13-Dec-91           | 4                 |                              |
| VHD | E&E               | DV           | UM33   | Voas GCMS Water | 09-Dec-91           | 8                 |                              |
| VHG | E&E               | DV           | UM33   | Voas GCMS Water | 10-Dec-91           | 14                |                              |

E&E Contract Number DAAA15-90-0012

eekly Control Chart Summary January 10, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis            | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------------|---------------------|-------------------|------------------------------|
| CDB | WCFS              | CM           | UH16   | Pest/PCB Water      | 18-Nov-91           | 4                 |                              |
| SHV | WCFS              | CM           | LM15   | Semivoa GCMS Soil   | 03-Dec-91           | 1                 |                              |
| SHT | WCFS              | СМ           | UM16   | Semivoas GCMS Water | 04-Nov-91           | 9                 |                              |

WCFS Contract Number DAAA15-90-D-0010

| Lot | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|------------------|---------------------|----------------------|------------------------------|
| EFF | ABB               | BA           | UW26    | Explosives Water | 24-Dec-91           | 11                   |                              |
| EFE | ABB               | ВА           | UW26    | Explosives Water | 23-Dec-91           | 18                   |                              |
| EFD | ABB               | BA           | UW26    | Explosives Water | 18-Dec-91           | 17                   |                              |
| FKX | ABB               | ВА           | SD24-PB | Graphite Furnace | 17-Dec-91           | 30                   |                              |
| FKR | ABB               | BA           | SD24-PB | Graphite Furnace | 11-Dec-91           | 22                   |                              |
| FKK | ABB               | BA           | SD24-PB | Graphite Furnace | 10-Dec-91           | 18                   |                              |
| MEM | ABB               | BA           | SS16-C  | ICP Water        | 30-Dec-91           | 33                   |                              |
| IFE | ABB               | BA           | TT08    | Ion Chrom Water  | 06-Jan-92           | 25                   |                              |
| IFC | ABB               | BA           | TT08    | Ion Chrom Water  | 02-Jan-92           | 25                   |                              |
| GAN | ABB               | BA           | UN06    | Nitrosamines GC  | 02-Jan-92           | 16                   |                              |
| GAO | ABB               | BA           | UN06    | Nitrosamines GC  | 02-Jan-92           | 10                   |                              |
| VHJ | ABB               | BA           | UM33    | Voas GCMS Water  | 13-Dec-91           | 6                    |                              |
| VHL | ABB               | BA           | UM33    | Voas GCMS Water  | 17-Dec-91           | 8                    |                              |
| VHI | ABB               | BA           | UM33    | Voas GCMS Water  | 11-Dec-91           | 14                   |                              |
| VHF | ABB               | BA           | UM33    | Voas GCMS Water  | 09-Dec-91           | 13                   |                              |
| VHH | ABB               | BA           | UM33    | Voas GCMS Water  | 10-Dec-91           | 11                   |                              |

ABB Contract Number DAAA15-91-D-008





US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010-5401

February 7, 1992

Technical Support Division



Mr. Stephen P. Spellenberg Arthur D. Little, Inc. 15 Acorn Park

Cambridge, Massachusetts 02140-2390

Dear Mr. Spellenberg:

The control charts submitted with your letters dated January 17 and 24, 1992, under several contracts, for the work done at Fort Devens, Badger Army Ammunition Plant, Cameron Station, Picatinny Arsenal, and Jefferson Proving Ground, have been reviewed. The methods, lots, and installations are at the enclosure.

The following comments apply to these submissions:

- Method SB03 Lots DDS, DDQ, and DDR are acceptable.
- b. Method UM33 Lots VHR, VHN, VHP, VHV, VHT, VHS, VHQ, and VHM are acceptable.
- Method TT08 Lots IFF, IFK, IFH, IFI, and IFG are acceptable.
  - d. Method UW26 - Lots EFI, EFJ, EFH, and EFG are acceptable.
  - Method LH13 Lots CCY, CCZ, and CCX are acceptable. e.
  - f. Method TF33 - Lot ZSB is acceptable.
  - Method UH16 Lot CDF is acceptable. g.
  - Method LM16 Lot VHU is acceptable. h.
  - Method KT04 Lots IFJ and IFL are acceptable.

Potomac Research, Inc., will be notified as to the acceptability of the data.

Questions or comments should be addressed to Mr. Robert D. Murray, (410) 671-1571/3348.

Sincerely,

Robert D. Murray/ Contracting Officer's Representative

Representative DAAA15-87-D-0016

Charles A. Lechner Contracting Officer's

Representative DAAA15-90-D-0007

James J. McKenna Contracting Officer's Representative DAAA15-91-D-0008

Sames D. Daniel

Contracting Officer's Representative

DAAA15-90-D-0012

Rosemary Austin

Rosemary Axistin
Contracting Officer's
Representative
DAAA15-90-D-0010

### Enclosure

Copies Furnished (with enclosure):

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050. / Portland, Maine 04112

Mr. Tom Dabrowski, Chem-Nuclear Remediation, Inc., 743 Horizon Court, Suite 200, Grand Junction, Colorado 81506 Mr. Lawrence Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 20850 Ms. Marcia Meredith, Ecology and Environmental, Inc., 368 Pleasantview Drive, Lancaster, New York 14086

| Lot | Delivery<br>Order | Installation | Method | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|------------------|---------------------|----------------------|------------------------------|
| EFG | ABB               | BA           | UW26   | Explosives Water | 06-Jan-92           | 13                   |                              |
| IFG | ABB               | BA           | TT08   | Ion Chrom Water  | 08-Jan-92           | 19                   |                              |
| IFF | ABB               | BA           | TT08   | Ion Chrom Water  | 07-Jan-92           | 25                   |                              |
| DDS | ABB               | BA           | SB03 - | Mercury Water    | 03-Jan-92           | 32                   |                              |
| DDQ | ABB               | BA           | SB03 ′ | Mercury Water    | 30-Dec-91           | 34                   |                              |
| DDR | ABB               | BA           | SB03 - | Mercury Water    | 31-Dec-91           | 16                   |                              |
| VHR | ABB               | BA           | UM33 / | Voas GCMS Water  | 20-Dec-91           | 15                   |                              |
| VHN | ABB               | BA           | UM33 - | Voas GCMS Water  | 18-Dec-91           | 15                   |                              |
| VHP | ABB               | BA           | UM33 / | Voas GCMS Water  | 24-Dec-91           | 16                   |                              |
| VHV | ABB               | BA           | UM33 / | Voas GCMS Water  | 30-Dec-91           | 13                   |                              |
| VHT | ABB               | BA           | UM33 - | Voas GCMS Water  | 26-Dec-91           | 11                   |                              |
| VHS | ABB               | BA           | UM33 · | Voas GCMS Water  | 23-Dec-91           | 13                   |                              |
| VHM | ABB               | BA           | UM33 · | Voas GCMS Water  | 17-Dec-91           | 8                    |                              |

ABB Contract Number DAAA15-91-D-008

Weekly Control Chart Summary

January 17, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis      | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------|---------------------|-------------------|------------------------------|
| CCY | WCFS              | СМ           | LH13 - | Pest/PCB Soil | 24-Nov-91           | 14                |                              |
| CCZ | WCFS              | CM           | LH13 - | Pest/PCB Soil | 25-Nov-91           | 15                |                              |
| CCX | WCFS              | CM           | LH13 ~ | Pest/PCB Soil | 23-Nov-91           | 13                |                              |

WCFS Contract Number DAAA15-90-D-0010

| Lot | Delivery<br>Order | Installation | Method | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|------------------|---------------------|----------------------|------------------------------|
| EFI | E&E               | DV           | UW26 - | Explosives Water | 07-Jan-92           | 13                   |                              |
| DDR | E&E               | DV           | SB03 - | Mercury Water    | 31-Dec-91           | 9                    |                              |
| DDS | E&E               | DV           | SB03 - | Mercury Water    | 03-Jan-92           | 1                    |                              |
| ZSB | E&E               | DV           | TF33 - | Tot. Kjeldahl N  | 27-Dec-91           | 44                   |                              |
| VHS | E&E               | DV           | UM33-  | Voas GCMS Water  | 23-Dec-91           | 5                    |                              |
| VHQ | E&E               | DV           | UM33 — | Voas GCMS Water  | 19-Dec-91           | 8                    |                              |

E&E Contract Number DAAA15-90-0012

Weekly Control Chart Summary January 17, 1992

| Lot   | Delivery<br>Order | Installation | Method | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-------|-------------------|--------------|--------|------------------|---------------------|----------------------|------------------------------|
| EFI _ | 49                | PI           | UW26   | Explosives Water | 07-Jan-92           | 5                    |                              |

ly Control Chart Summary

January 24, 1992

| Lot   | Delivery<br>Order | Installation | Method | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-------|-------------------|--------------|--------|------------------|---------------------|----------------------|------------------------------|
| EFJ 🛷 | 49                | PI           | UW26   | Explosives Water | 20-Jan-92           | 5                    |                              |
|       |                   |              |        |                  |                     |                      |                              |

Weekly Control Chart Summary January 24, 1992

| Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-------------------|--------------|--------|-----------------|---------------------|----------------------|------------------------------|
| ABB               | ВА           | UM33   | Voas GCMS Water | 30-Dec-91           | 13                   | 17-Jan-92                    |
|                   | Order        | Order  | Order           | Order               | Order Analysis       | Order Analysis Samples       |

ABB Contract Number DAAA15-91-D-008

## ly Control Chart Summary January 24, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|------------------|---------------------|----------------------|------------------------------|
| EFH | E&E               | DV           | UW26 - | Explosives Water | 16-Jan-92           | 19                   |                              |
| CDF | E&E               | DV           | UH16 - | Pest/PCB Water   | 13-Jan-92           | 6                    |                              |
| VHU | E&E               | DV           | LM16 / | Voas GCMS Soil   | 26-Dec-91           | 2                    |                              |

E&E Contract Number DAAA15-90-0012

### Weekly Control Chart Summary January 24, 1992

| Lot | Delivery<br>Order | Installation | Method   | Analysis        | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|----------|-----------------|---------------------|----------------------|------------------------------|
| IFJ | CNES              | JF           | KT04-N - | Ion Chrom Soil  | 17-Jan-92           | 1                    |                              |
| IFL | CNES              | JF           | KT04-N - | Ion Chrom Soil  | 18-Jan-92           | 1                    |                              |
| IFK | CNES              | JF .         | TT08     | Ion Chrom Water | 18-Jan-92           | 2                    |                              |
| IFH | CNES              | JF           | TT08 _   | Ion Chrom Water | 16-Jan-92           | 1                    |                              |
| IFI | CNES              | JF           | TT08 -   | Ion Chrom Water | 17-Jan-92           | 1                    |                              |

CNES Contract Number DAA15-90-0007



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010-5401

February 21, 1992

Technical Support Division



Mr. Ron Marsden DataChem Laboratories 960 West LeVoy Drive Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

Reference is made to the letter from this Agency to DataChem Laboratories dated January 9, 1992, concerning contract numbers DAAA15-87-D-0017, DAAA15-91-D-0008, DAAA15-90-D-0008, DAAA15-90-D-0016, and DAAA15-90-D-0009 (enclosure 1) and to a letter from DataChem Laboratories dated January 14, 1992, regarding the previous submission (enclosure 2).

Subject control charts were reviewed with results as follows:

- a. Method KF15 Lot QOG is acceptable.
- b. Method N8 Lot QRG is acceptable.
- c. The rest of the lots submitted were addressed in a previous letter dated January 9, 1992.

Potomac Research, Inc., has been advised that the in-control lots, as noted above, are cleared for additional processing.

Questions concerning this review should be directed to Mr. Ivan C. Sosa at (410) 671-1577/3348.

Sincerely,

Darlene F. Bader

Contracting Officer's

Representative DAAA15-87-D-0017

Dominique K. Edwards
Contracting Officer's

Representative DAAA15-90-D-0008

James J. McKenna

Contracting Officer's

Representative DAAA15-91-D-0008

Randall J. Cerar

Contracting Officer's

Representative DAAA15-90-D-0016

Com L. Sun

Conrad L. Swann
Contracting Officer's
Representative
DAAA15-90-D-0009

#### Enclosures

Copies Furnished (with enclosures):

Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547

Program Manager for Rocky Mountain Arsenal, ATTN: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, P.O. Box 117 Commerce City,

Colorado 80037-0177

Ms. Laura Hofman, Engineering Science, Inc., 600 Bancroft Way, Berkley, California 94710

Mr. Jeffrey Pickett, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Ms. Debbie Racioppi, Roy F. Weston, Inc., 208 Welsh Pool Road, Lionville, Pennsylvania 19341-1313

Mr. David Sharp, Metcalf & Eddy, Inc., 2800 Corporate Exchange Drive, Suite 250, Columbus, Ohio 43231



# DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401





Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

### Dear Mr. Marsden:

Your control chart submission dated November 22, 1991, under contract numbers DAAA15-87-D-0017, DAAA15-91-D-0008, DAAA15-90-D-0008, DAAA15-90-0016, and DAAA15-90-D-0009 have been reviewed. The methods, lots, and installations are at the enclosure.

### Comments are as follows:

- a. Method B9 Lots QFI and QDI are acceptable.
- b. Method JD21 Lots RAP, QFK, and QDG are acceptable.
- c. Method KF17 Lots QLT and QHG are acceptable.
- d. Method CC8 Lots QMJ and QIX are acceptable.
- e. Method LL8 Lots QIV and QLX are acceptable.
- f. Method TF34 Lot QRV is acceptable.
- g. Method AY8 Lots QQV and QSN are acceptable.
- h. Method LW23 Lots QFH, QHD, QGC, and QJY are acceptable.
- i. Method JS12 Lots PZQ and RAL are acceptable.
- j. Method LN08 Lots PTV, QDL, and QGT are acceptable.
- k. Method LM23 Lots QOO, QQT, QSH, QOH, QPD, and QRE are acceptable.
  - 1. Method P8 Lot QRI is acceptable.
  - m. Method SS12 Lots QFB and QBA are acceptable.
  - n. Method UH11 Lots QPY and QRH are acceptable.

- o. Method KK8 Lots PWP, QQW, and QIH are acceptable.
- p. Method AV8 Lots QPX and QSK are acceptable.
- q. Method UM21 Lots QRO, QSI, PZI, and QTT are acceptable.
- r. Method KF15 Lots QNG, QNO, QPH, and QPS are acceptable. The control charts differ between what is found on the diskette in comparison to the printout. Specifically, lot QOG, analyzed on November 11, 1991, has been deleted from the printout but is found on the diskette. This practice is unacceptable to this Agency. It is requested you provide this Agency with a written explanation for this discrepancy within 10 working days of receipt of this letter.
  - s. Method AX8 Lot QBK is acceptable.
  - t. Method JD20 Lot QDH and QFJ are acceptable.
- u. Method Y9 Lots QIB, QGJ, QEI, QIB, QLR, and QJG are acceptable.
  - v. Method LH17 Lots QNF, QJN, QHO, and QMH are acceptable.
- w. Method LM25 Lots QGD, QHA, QIE, and QJC are acceptable. This Agency concurs with the laboratory's recommendation that the data for lot QGP are unacceptable due to low recoveries for at least two-thirds of the method analytes.
  - x. Method AAA8 Lot QQU is acceptable.
  - y. Method UM25 Lots QCY, QJA, QHP, and QMS are acceptable.
- z. Method N8 Lots QIS and QPV are acceptable. Lot QRG was not reviewed because data for 11DCE were not provided. Furnish this Agency with data for 11DCE in lot QRG as soon as possible.

When quality control spike recoveries are out of control or are markedly different from historical data, the results of field sample analyses should be provided. This will allow this Agency to make an accurate assessment of data usability. For example, if spike recoveries are high, but the samples have no hits, the data should still be usable.

As a reminder to the laboratory, all changes made to data must be explained in the corresponding narrative.

Potomac Research, Inc., has been advised that the in-control lots, as noted above, are cleared for additional processing.

Questions concerning this review should be directed to Mr. Ivan C. Sosa at (410) 671-1577/3348.

Sincerely,

Darlene F. Bader
Contracting Officer's
Representative
DAAA15-87-D-0017

Dominique K. Edwards
Dominique K. Edwards
Contracting Officer's
Representative
DAAA15-90-D-0008

James J. McKenna Contracting Officer's Representative DAAA15-91-D-0008

Randall J. Cerar Contracting Officer's Representative DAAA15-90-D-0016

Conrad L. Swann
Contracting Officer's
Representative
DAAA15-90-D-0009

### Enclosure

Copies Furnished (with enclosure):

Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547

Program Manager for Rocky Mountain Arsenal, ATTN: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, P.O. Box 117 Commerce City, Colorado 80037-0177

Ms. Laura Hofman, Engineering Science, Inc., 600 Bancroft Way, Berkley, California 94710

Mr. Jeffrey Pickett, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Ms. Debbie Racioppi, Roy F. Weston, Inc., Weston Way, West Chester, Pennsylvania 19380

Mr. David Sharp, Metcalf & Eddy, Inc., 2800 Corporate Exchange Drive, Suite 250, Columbus, Ohio 43231



November 22, 1991 Refer to: 91A246

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report Contract #: DAAA15-87-0017/0047,48,49,51(CLASS)

DAAA15-87-0017/0061,62,63 (CLASS)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

Contract #: DAAA-15-90-D-0008(ENGINEERING SCIENCE)

Contract #: DAAA-15-90-0016(METCALF & EDDY)

Contract #: DAAA-15-90-0009(ROY F. WESTON)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method # | Installation | Lot #              | Contractor       |
|----------|--------------|--------------------|------------------|
| В9       | ВА           | QFI,QDI            | E.A. ENGINEERING |
| KF15     | AM           | QNG, QNO, QPH      | WESTON           |
|          | LX           | QPS                | METCALF & EDDY   |
| LW23     | BA           | QFH,QHD,QGC        | E.A. ENGINEERING |
|          | MA           | QJY                | WESTON           |
| JS12     | AM           | PZQ                | WESTON           |
|          | BA           | RAL                | E.A. ENGINEERING |
| JD21     | BA           | RAP,QFK,QDG        | E.A. ENGINEERING |
| Y9       | BA           | QGJ,QEI,QLR        | E.A. ENGINEERING |
|          | AM           | QIB,QJG            | WESTON           |
| KF17     | BA           | QLT, QHG           | E.A. ENGINEERING |
| LN08     | BA           | PTV,QDL,QGT        | E.A. ENGINEERING |
| LH17     | AM           | QHO, QNF, QJN, QMH | WESTON           |
| JD20     | BA           | QFJ,QDH            | E.A. ENGINEERING |
| LM25     | BA           | QGD,QHA,QGP        | E.A. ENGINEERING |
| 21.62    | AM           | QGP,QIE,QJC        | WESTON           |

| Novem! | ber | 22, | 1991 |
|--------|-----|-----|------|
| Page   | 2   |     |      |

| LM23           | LX   | Q00,QQT          | METCALF & EDDY         |
|----------------|------|------------------|------------------------|
| <b>5112</b> 5  | BA   | QOO, QSH         | E.A. ENGINEERING       |
|                | AM   |                  | WESTON                 |
| AX8            | AM   | QBK              | WESTON                 |
| TF34           | AM   | ORV              | WESTON                 |
| 11.74          | LX   | ORV              | METCALF & EDDY         |
| AY8            | RK   | QQV,QSN          | CLASS-SEWAGE TREATMENT |
| AIU            | RK   | QQV              | CLASS-NORTH BOUNDARY   |
|                | RK   | QSN              | CLASS-BASIN A          |
| P8             | RK   | QRI              | CLASS-BASIN A          |
| ro             | RK   | QRI              | CLASS-NORTH BOUNDARY   |
| SS12           | BA   | QFB              | E.A. ENGINEERING       |
| 3312           | AM   | QBA              | WESTON                 |
| CC8            | HT   | QMJ              | ENGINEERING SCIENCE    |
|                | BA   | QIX              | E.A. ENGINEERING       |
|                | RK   | QIX              | HARDING LAWSON         |
| LL8            | BA   | OIV              | E.A. ENGINEERING       |
| 220            | RK   | QIV              | HARDING LAWSON         |
|                | HT   | QLX              | ENGINEERING SCIENCE    |
| UH11           | RK   | QPY, QRH         | CLASS-SEWAGE TREATMENT |
| <b>U.1.2.2</b> | RK   | QRH              | CLASS-BASIN A          |
|                | RK   | ORH              | CLASS-NORTH BOUNDARY   |
| KK8            | RK   | PWP,QQW          | CLASS-NORTH BOUNDARY   |
| ,,,,,          | RK   | QQW              | CLASS-SEWAGE TREATMENT |
|                | RK   | QIH              | HARDING LAWSON         |
| SAAA           | RK   | <b>QQ</b> บ      | CLASS-BASIN A          |
|                | RK   | QQU              | CLASS-NORTH BOUNDARY   |
| UM25           | AM   | QCY,QHP,QJA,QMS  | WESTON                 |
| 0              | BA   | QJA              | E.A. ENGINEERING       |
|                | RK   | QJA,QHP          | HARDING LAWSON         |
|                | RK   | QJA              | STOLLAR                |
| AV8            | RK   | QPX,QSK          | CLASS-BASIN A          |
| AVO            | RK   | QSK              | CLASS-SEWAGE TREATMENT |
| N8             | RK   | QPV, QRG         | CLASS-BASIN A          |
| 110            | RK   | QRG              | CLASS-NORTH BOUNDARY   |
|                | RK   | ORG              | CLASS-SEWAGE TREATMENT |
|                | RK   | QIS*             | HARDING LAWSON         |
| UM21           | AM   | QRO,QSI,PZI*,QTT |                        |
| UNAL           | LX   | QRO,QSI,QTT      | METCALF & EDDY         |
|                | RK   | QTT              | CLASS-BASIN A          |
|                | 2/4/ | H T T            |                        |

<sup>\*</sup>RESUBMITTED

November 22,1991 Page 3

DataChem Laboratories has a corrective action to report.

Sincerely Fine Peters for Rom Mansden Rom Marsden

Quality Assurance Section Manager

RM/cwe

cc: D. Gayer

L. Eggenberger T. Mikesell

, -d fell

14 January 1992

Ms. Darlene Bader USATHAMA CETHA-TS-C/D. Bader A.P.G.- EA, MD 21010-5401

Refer to: 92PM011

Dear Ms. Bader,

As per our phone conversation on 14 January 1992, and in response to the USATHAMA letter dated January 9, 1992, the following items are noted.

Item r, for method KF15, states that lot QOG was deleted. There is no indication that the lot was ever deleted.

The most probable cause of the missing data is that the charts were printed prior to the entry of the lot. As several lots were analyzed on the same date, it is possible that this lot was meant to be reported to USATHAMA at the same time as the other lots. The manual log, which tracks lot receipt and reporting, indicates this lot as intending to be reported with lots QNG, QNO, QPH and QPS, the lots accepted in the January 9, 1992 letter. The disk is prepared after the entry of all lot data, for the weeks' submission. The disk was prepared after the charts and tables were printed and after the entry of the missing lot.

Systems are in place to prevent such an occurance as this, but it appears that this lot failed to be reported to USATHAMA despite the safeguards currently in place.

Lot QOG for method KF15 will now be reported. The QC recoveries for lot QOG are acceptable.

Item z, method N8, for lot QRG; The letter indicates that this lot was missing on the control charts for llDCE. Please find enclosed a copy of charts containing llDCE. DCL's copies of llDCE have this lot posted. As yet, there is no plausible explanation as to why this lot was missing on the USATHAMA copy of the control

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charts for l1DCE. The data are acceptable.

A copy of the USATHAMA letter dated January 9, 1992 is provided for your reference.

Sincerely,

Reed Sprague Quality Assurance Department

cc:

Ron Marsden



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND. MARYLAND 21010-5401



February 24, 1992

Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

#### Dear Mr. Marsden:

Your control chart submission dated January 13, 1992, under contract numbers DAAA15-87-D-0017, DAAA15-91-D-0008, DAAA15-90-D-0016, and DAAA15-90-D-0009 have been reviewed. The methods, lots, and installations are at the enclosure.

### Comments are as follows:

- a. Method B9 Lots QTK, QPJ, QQK, and QOZ are acceptable.
- b. Method KF15 Lot RSU is acceptable.
- c. Method LW23 Lot RRW is acceptable.
- d. Method LH18 Lot RMF is acceptable.
- e. Method JS12 Lots QPN, QTI, QNL, QPI, QOE, QQJ, QPE, and QOV are acceptable.
  - f. Method Y9 Lots RGE, RJO, and RMA are acceptable.
  - q. Method LM23 Lots RRU, RRV, and RSL are acceptable.
  - h. Method TT09 Lot RMT is acceptable.
  - i. Method TF34 Lots RQA and RRI are acceptable.

- j. Method AY8 Lots RQT and RTE are acceptable.
- k. Method UH10 Lot RHU is acceptable.
- 1. Method P8 Lot RQS is acceptable.
- m. Method SD18 Lots QRT and QRN are acceptable.
- n. Method CC8 Lots RLF, RMX, and RNO are acceptable.
- o. Method LL8 Lot RQH is acceptable.
- p. Method KK8 Lots RRY and RTD are acceptable.
- q. Method AAA8 Lot RTA is acceptable.
- r. Method UM25 Lots QRP and QQN are acceptable.
- s. Method AV8 Lot RTC is acceptable.
- t. Method N8 Lot RTB is acceptable.
- u. Method UM21 Lots RRJ, RRS, and ROO are acceptable.
- v. Method LM25 Lots QRF, QWD, QYU, QWB, QUL, QWA, QVZ, QZG, QWC, RCX, and RCO are acceptable. Lots QKT and QMG were not reviewed because charts for their data were not provided. Furnish this Agency with this data as soon as possible.
- w. Method UH11 Lots RBA, RBZ, and REG are acceptable. This Agency concurs with the laboratory's recommendation that the data for lot QYO are unacceptable due to low recoveries for most of the method analytes.
- x. Method UN10 This Agency agrees with the laboratory's determination that lot QKI is unacceptable due to low recoveries for NNDMEA, NNDNPA, and NNDPA.

Potomac Research, Inc., has been advised that the in-control lots, as noted above, are cleared for additional processing.

Questions concerning this review should be directed to Mr. Ivan C. Sosa at (410) 671-1577/3348.

Sincerely,

Darlene F. Bader

Contracting Officer's

Representative DAAA15-87-D-0017

Dominique K. Edwards
Contracting Officer's

Representative DAAA15-90-D-0008

ames J. Mokenna

Contracting Officer's

Representative DAAA15-91-D-0008

Randall J. Cerar

Contracting Officer's

Representative DAAA15-90-D-0016

Could Su

Conrad L. Swann
Contracting Officer's
Representative
DAAA15-90-D-0009

### Enclosure

Copies Furnished (with enclosure):

Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547

Program Manager for Rocky Mountain Arsenal, ATTN: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180

Dr. Jack Pantleo, D. P. Associates, P.O. Box 117 Commerce City, Colorado 80037-0177

Ms. Laura Hofman, Engineering Science, Inc., 600 Bancroft Way, Berkley, California 94710

Mr. Jeffrey Pickett, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Ms. Debbie Racioppi, Roy F. Weston, Inc., 208 Welsh Pool Road, Lionville, Pennsylvania 19341-1313

Mr. David Sharp, Metcalf & Eddy, Inc., 2800 Corporate Exchange Drive, Suite 250, Columbus, Ohio 43231

### January 13,1992 Refer to: 92A008

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0061,62,63,64,65(CLASS)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

Contract #: DAAA-15-90-D-0008(ENGINEERING SCIENCE)

Contract #: DAAA-15-90-0016(METCALF & EDDY)

Contract #: DAAA-15-90-0009(ROY F. WESTON)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method #     | <u>Installation</u> | Lot #                              | Contractor                             |
|--------------|---------------------|------------------------------------|----------------------------------------|
| В9           | LX<br>AM<br>BA      | QTK<br>QPJ,QQK<br>QOZ              | METCALF & EDDY WESTON E.A. ENGINEERING |
| KF15<br>LW23 | DE<br>SB            | RSU<br>RRW                         | TEPS<br>HARDING LAWSON                 |
| LB18<br>JS12 | DE<br>LX            | RMF<br>OPN, OTI                    | TEPS<br>METCALF & EDDY                 |
| J312         | AM<br>BA            | OPE,QOV<br>ONL,QPI,QOE,QQJ         | WESTON E.A. ENGINEERING                |
| Y9<br>LM25   | LX<br>BA            | RGE, RJO, RMA<br>OKT               | METCALF & EDDY E.A. ENGINEERING        |
| LM23         | AM<br>LX            | QMG,QRF,QWD,QYU<br>QWB,QUL,QWA,QWD | WESTON                                 |
|              | ш                   | QYU,QVZ,QZG,QWC<br>RCX,RCO         | REICREF & BODI                         |
| LM23         | SB<br>DE            | RRU, RRV<br>RSL                    | HARDING LAWSON<br>TEPS                 |
| TT09         | RK                  | RMT                                | CLASS-NORTH BOUNDARY                   |

January 13,1992 Page 2

| TF34 | . RK | RQA           | CLASS-NORTH BOUNDARY   |
|------|------|---------------|------------------------|
|      | AM   | RQA           | WESTON                 |
|      | LX   | RRI           | METCALF & FDDY         |
| AY8  | RK   | RQT           | CLASS-NORTH BOUNDARY   |
|      | RK   | RTE           | CLASS-SEWAGE TREATMENT |
| UH10 | DE   | RHU           | TEPS                   |
|      | LX   | RHU           | METCALF & EDDY         |
| P8   | RK   | RQS           | CLASS-NORTH BOUNDARY   |
| SD18 | LX   | QRT           | METCALF & EDDY         |
|      | TY   | QRN           | E.A. ENGINEERING       |
| CC8  | LX   | RLF           | METCALF & EDDY         |
|      | RK   | RLF           | CLASS-SEWAGE TREATMENT |
|      | RK   | RMX           | CLASS-NORTH BOUNDARY   |
|      | AM   | RNO           | WESTON                 |
| LL8  | AM   | RQH           | WESTON                 |
| UH11 | RK   | QŸO           | CLASS-BASIN A          |
|      | RK   | RBA, RBZ, REG | HARDING LAWSON         |
| UN10 | BA   | QKI           | E.A. ENGINEERING       |
| KK8  | RK   | RRY           | CLASS-BASIN A          |
|      | RK   | RRY,RTD       | CLASS-SEWAGE TREATMENT |
| AAA8 | RK   | RTA           | CLASS-BASIN A          |
| UM25 | RK   | QRP           | HARDING LAWSON         |
|      | LX   | QRP           | METCALF & EDDY         |
|      | AM   | QRP,QQN       | WESTON                 |
| 8VA  | RK   | RTC           | CLASS-BASIN A          |
| N8   | RK   | RTB           | CLASS-BASIN A          |
| UM21 | DE   | RRJ, RRS      | TEPS                   |
|      | LX   | RRJ, RRS      | METCALF & EDDY         |
|      | RK   | ROO           | WOODWARD CLYDE         |
|      |      |               |                        |

DataChem Laboratories has a corrective action to report.

KudSprague for Non Marsden

Ron Marsden

Quality Assurance Section Manager

RM/cwe

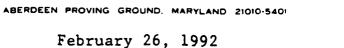
cc: D. Gayer

L. Eggenberger T. Mikesell



### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND MARYLAND 2000-5401





Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Reference is made to your control chart submission dated January 31, 1992, for work performed under contract numbers DAAA15-87-D-0016, DAAA15-91-D-0008, DAAA15-90-D-0007, and DAAA15-90-D-0012. The methods, lots, and installations are at the enclosure.

Subject control charts were reviewed with results as follows:

- a. Method UH16 Lots CDH, CDG, CDI, CDK, and CDJ are acceptable.
  - b. Method TT08 Lots IFM, IFO, and IFQ are acceptable.
- c. Method UM16 Lots SHY, SHX, SHW, SIA, SIE, SID, and SIB are acceptable.

Potomac Research, Inc., has been advised that the in-control lots, as noted above, are cleared for additional processing.

Questions concerning this review should be directed to Mr. Ivan C. Sosa, (410) 671-1577/3348.

Sincerely,

Robert D. Murray

Contracting Officer's

Representative DAAA15-87-D-0016

James J. McKenna

Contracting Officer's

Representative DAAA15-91-D-0008

Charles A. Lechner
Contracting Officer's
Representative
DAAA15-90-D-0007

James D. Daniel Contracting Officer's Representative DAAA15-90-D-0012

Enclosure

Copies Furnished (with enclosure):

Mr. Stephen Spellenberg, Arthur D. Little, Inc., 15 Acorn Park, Cambridge, Massachusetts 02140-2390

Ms. Marcia Meredith, Ecology and Environment, Inc., 368 Pleasantview Drive, Lancaster, New York 14086

Mr. Tom Dabrowski, Chem-Nuclear Remediation, Inc.,

743 Horizon Court, Suite 200, Grand Junction, Colorado 81506 Mr. Jeffrey Pickett, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

### Weekly Control Chart Summary

### January 31, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| IFM | CNES              | JF.          | TT08   | Ion Chrom Water | 21-Jan-92           | 5                 |                              |
| IFO | CNES              | JF           | TT08   | Ion Chrom Water | 22-Jan-92           | 9                 |                              |
| IFQ | CNES              | JF .         | TT08   | Ion Chrom Water | 23-Jan-92           | 3                 |                              |

CNES Contract Number DAA15-90-0007

## Weekly Control Chart Summary January 31, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| CDH | E&E               | DV           | UH16   | Pest/PCB Water  | 18-Jan-92           | 13                |                              |
| CDG | E&E               | ĐV           | UH16   | Pest/PCB Water  | 17-Jan-92           | 12                |                              |
| CDI | E&E               | DV           | UH16   | Pest/PCB Water  | 19-Jan-92           | 9                 |                              |
| CDK | E&E               | DV           | UH16   | Pest/PCB Water  | 23-Jan-92           | 1                 |                              |
| CDJ | E&E               | DV           | UH16   | Pest/PCB Water  | 22-Jan-92           | 3                 |                              |
| SID | E&E               | DV           | UM16   | Semivoas GCMS W | 18-Dec-91           | 8                 |                              |
| SIE | E&E               | DV           | UM16   | Semivoas GCMS W | 18-Dec-91           | 4                 |                              |

E&E Contract Number DAAA15-90-0012

### Weekly Control Chart Summary

January 31, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|----------------------|------------------------------|
| SHY | ABB               | BA           | UM16   | Semivoas GCMS W | 11-Dec-91           | 11                   | · · · · · ·                  |
| SHX | ABB               | BA           | UM16   | Semivoas GCMS W | 06-Dec-91           | 1                    |                              |
| SHW | ABB               | BA           | UM16   | Semivoas GCMS W | 03-Dec-91           | 2                    |                              |
| SIA | ABB               | BA           | UM16   | Semivoas GCMS W | 14-Dec-91           | 13                   |                              |
| SIE | ABB               | BA           | UM16   | Semivoas GCMS W | 18-Dec-91           | 7                    |                              |
| SID | ABB               | BA           | UM16   | Semivoas GCMS W | 18-Dec-91           | 6                    | •                            |
| SIB | ABB               | BA           | UM16   | Semivoas GCMS W | 17-Dec-91           | 7                    |                              |

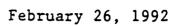
ABB Contract Number DAAA15-91-D-008



### DEPARTMENT OF THE ARMY

## US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401





Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

The control charts submitted with your letter dated January 31, 1992, under contract numbers DAAA15-87-D-0017, DAAA15-91-D-0008, DAAA15-90-D-0008, DAAA15-90-D-0016, and DAAA15-90-D-0009, have been reviewed. The methods, lots, and installations are included at the enclosure.

The following comments apply to this submission:

- a. Method JS12 Lot QWU is acceptable.
- b. Method JD21 Lot RGH is acceptable.
- c. Method Y9 Lot RWS is acceptable.
- d. Method LW27 Lot QPB is acceptable.
- e. Method KK9B Lot ROT is acceptable. However, lower high and low spike recoveries are noted and must be investigated to ensure that this trend does not continue.
- f. Method LH17 Lots RLP, RQP, RKO, and RME are acceptable. Although this method is acceptable, the downward trend in recoveries must be monitored closely.

- g. Method LM25 Lots RFB, RHG, RJI, RKP, and RLW are acceptable.
- h. Method TT09 Lots RRN and RQZ are acceptable. The precision could be improved.
- i. Method AX8 Lots RSQ, RIV, and QYH are acceptable. The precision could be improved.
  - j. Method TF34 Lots RUU, RXB, and RYB are acceptable.
  - k. Method AY8 Lots RXD, RXU, and RVT are acceptable.
  - 1. Method AT8 Lot RVU is acceptable.
- m. Method UW25 Lot RXO is acceptable. The downward trend needs to be monitored closely before an out-of-control situation occurs.
  - n. Method SS12 Lots ROG, QZO, and RPR are acceptable.
  - o. Method SD18 Lot RJD is acceptable.
  - p. Method CC8 Lot RXN is acceptable.
  - q. Method UH20 Lots ROC, RLB, and RIY are acceptable.
- r. Method SD25 Lots QYI, QZA, ROI, RJE, and RSS are acceptable.
  - s. Method UM25 Lots QYW, RHA, RFL, and RIZ are acceptable.
  - t. Method N8 Lots RVY, RXA, and RSH are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data for Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments concerning this review should be directed to Ms. Brenda P. Little at (410) 671-1575/3348.

### Sincerely,

Darlene F. Bader
Contracting Officer's
Representative
DAAA15-87-D-0017

Dominique K. Edwards
Contracting Officer's
Representative
DAAA15-90-D-0008

James J. McKenna
Contracting Officer's
Representative
DAAA15-91-D-0008

Randall J. Cerar Contracting Officer's Representative DAAA15-90-D-0016

Conrad L. Swann
Contracting Officer's
Representative
DAAA15-90-D-0009

### Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City, Colorado 80037-0177

Ms. Gail DeRuzzo, Roy F. Weston, Inc., 208 Welsh Pool Road, Lionville, Pennsylvania 19341-1313

Mr. Steve Brown, EA Laboratories, 19 Loveton Circle, Sparks, Maryland 21152

Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial 
Street, Portland, Maine 04112

Mr. Bruce King, Engineering Science, Inc., 75 North Fair Oaks Avenue, Pasadena, California 91103

Ms. Mary Beth Smecansky, Metcalf & Eddy, Inc., 2800 Corporate Exchange Drive, Suite 250, Columbus, Ohio 43231

Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547



January 31,1992 Refer to: 92A031

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0061,62,63,64,65(CLASS)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

Contract #: DAAA-15-90-D-0008(ENGINEERING SCIENCE)

Contract #: DAAA-15-90-0016(METCALF & EDDY)

Contract #: DAAA-15-90-0009(ROY F. WESTON)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method # | Installation | Lot #         | Contractor           |
|----------|--------------|---------------|----------------------|
| JS12     | LX           | QWU           | METCALF & EDDY       |
| JD21     | LX           | RGH           | METCALF & EDDY       |
| Y9       | RK           | RWS           | WOODWARD CLYDE       |
| LW27     | BA           | QPB           | E.A. ENGINEERING     |
| KK9B     | RK           | ROT           | WOODWARD CLYDE       |
| LH17     | AM           | RLP           | WESTON               |
|          | DE           | RME           | VERSAR               |
|          | LX           | RKO, RQP      | METCALF & EDDY       |
| LM25     | AM '         | RFB, RHG      | WESTON               |
|          | DE           | RHG           | VERSAR               |
|          | LX           | RJI,RKP,RLW   | METCALF & EDDY       |
| TT09     | LX           | RRN           | METCALF & EDDY       |
|          | RK           | RQZ           | CLASS-NORTH BOUNDARY |
| AX8      | DE           | RSQ           | VERSAR               |
|          | LC           | RIV           | E.A. ENGINEERING     |
|          | SB           | RIV           | HARDING LAWSON       |
|          | TY           | ОХН           | E.A. ENGINEERING     |
| TF34     | RK           | RUU, RXB, RYB | HARDING LAWSON       |
|          | AM           | RUU           | WESTON               |

January 31,1992 Page 2

| AY8  | RK | RXD, RXU, RVT | HARDING LAWSON         |
|------|----|---------------|------------------------|
|      | RK | RXD           | CLASS-SEWAGE TREATMENT |
| AT8  | RK | RVU           |                        |
| UW25 | LC |               | HARDING LAWSON         |
| SS12 |    | RXO           | E.A. ENGINEERING       |
| 3312 | LX | ROG           | METCALF & EDDY         |
|      | RK | QZO           | HARDING LAWSON         |
|      | RK | RPR           | WOODWARD CLYDE         |
| SD18 | LC | RJD           | E.A. ENGINEERING       |
|      | SB | RJD           | HARDING LAWSON         |
| CC8  | LC | RXN           | E.A. ENGINEERING       |
| UH20 | AM | ROC           | WESTON                 |
|      | LX | ROC, RLB      | METCALF & EDDY         |
|      | SB | RIY           | HARDING LAWSON         |
| SD25 | TY | QYI           | E.A. ENGINEERING       |
|      | LX | QZA, ROI      | METCALF & EDDY         |
|      | LC | RJE           | E.A. ENGINEERING       |
|      | SB | RJE           | HARDING LAWSON         |
|      | DE | RSS           | VERSAR                 |
| UM25 | LX | QYW,RHA,RFL   | METCALF & EDDY         |
|      | AM | RHA           | WESTON                 |
| _    | RK | RFL           | HARDING LAWSON         |
|      | SB | RIZ           | HARDING LAWSON         |
| 8    | RK | RVY,RXA       | HARDING LAWSON         |
|      | RK | RSH           | CLASS-BASIN A          |

DataChem Laboratories has no corrective actions to report.

mague for son Marsdon Ron Marsden

Quality Assurance Section Manager

cs: D. Gayer
L. Eggenberger
T. Mikesell



### DEPARTMENT OF THE ARMY

# US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND MARYLAND 21010-5401



February 21, 1992

Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

Your control chart submission dated January 24, 1992, for contract numbers DAAA15-87-D-0017, DAAA15-91-D-0008, DAAA15-90-D-0008, DAAA15-90-D-0016, and DAAA15-90-D-0009, has been reviewed. Methods, lots, and installations are at the enclosure.

### Comments are as follows:

- a. Method B9 Lots QVT, QWQ, and RGF are acceptable. The laboratory needs to be aware that since the high spike is trending downward appropriate action should be taken to cease this direction.
- b. Method KF15 Lot RUI is acceptable. Discussion of the corrective action taken to bring the high spike back in control should be included in the commentary.
  - c. Method LW23 Lot RUJ is acceptable.
  - d. Method LH18 Lot RSO is acceptable.
  - e. Method JD21 Lot QWR is acceptable.
- f. Method AX8 Lot RFO is acceptable. Although RSQ was listed in your cover letter, the lot does not appear on the control charts. It is requested that you submit this lot, under separate cover, to Ms. Darlene F. Bader for review.
  - g. Method AY8 Lot RVG is acceptable.
- h. Method UW25 Lot RUQ is acceptable, although the recoveries for all analytes are higher than the historical data. The last several lots, in some cases up to six, have been greater than the upper control limit. Your commentary does not address any investigation into this situation. Therefore, you are requested to submit, within 5 working days of receipt of

this letter, a report detailing your investigation of this method and corrective action necessary to bring the method back on-line.

- i. Method UH10 Lots RRO and RSJ are acceptable.
- j. Method SD18 Lots RFN and RSR are acceptable. However, an explanation as to why there was more variability than usual between the high spikes should have been included.
  - k. Method CC8 Lots RQC and RUP are acceptable.
  - 1. Method UH11 Lot RVJ is acceptable.
- m. Method AAA8 Lot RVP is acceptable. The high spike precision could be improved in comparison to recent data.
  - n. Method AV8 Lots RVX, RWZ, and RSG are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data for Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments concerning this review should be directed to Ms. Bader, (410) 671-1573/3348.

Sincerely,

Darlene F. Bader

Contracting Officer's

Representative DAAA15-87-D-0017

Dominque K. Edwards

Contracting Officer's Representative

DAAA15-90-D-0008

ames J. McKenna

Contracting Officer's

Representative DAAA15-91-D-0008

Randall J. Cerar

Contracting Officer's

Representative DAAA15-90-D-0016

Conrad L. Swann

Contracting Officer's

Representative

DAAA15-90-D-0009

### Copies Furnished (with enclosure):

- Program Manager for Rocky Mountain Arsenal, ATTN: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177
- Ms. Gail DeRuzzo, Roy F. Weston, Inc., 208 Welsh Pool Road, Lionville, Pennsylvania 19341-1313
- Mr. Steve Brown, EA Laboratories, 19 Loveton Circle, Sparks, Maryland 21152
- Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial V Street, Portland, Maine 04112
- Mr. Bruce King, Engineering Science, Inc., 75 North Fair Oaks Avenue, Pasadena, California 91103
- Ms. Carol Sweet, Metcalf & Eddy, Inc., 1201 Peachtree Street, N.E., 400 Colony Square, Suite 1101, Atlanta, Georgia 30361
- Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547



January 24,1992 Refer to: 92A022

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0061,62,63,64,65(CLASS)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

Contract #: DAAA-15-90-D-0008(ENGINEERING SCIENCE)

Contract #: DAAA-15-90-0016(METCALF & EDDY)

ontract #: DAAA-15-90-0009(ROY F. WESTON)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method # | Installation | Lot #    | Contractor             |
|----------|--------------|----------|------------------------|
| В9       | AM           | QVT      | WESTON                 |
|          | LX           | QWQ, RGF | METCALF & EDDY         |
| KF15     | AM           | RUI      | WESTON                 |
| LW23     | AM           | RUJ      | WESTON                 |
| LH18     | DE           | RSO      | TEPS                   |
| JD21     | LX           | OWR      | METCALF & EDDY         |
| AX8      | DE           | RSQ      | TEPS                   |
|          | LX           | RFO      | METCALF & EDDY         |
| AY8      | RK           | RVG      | CLASS-SEWAGE TREATMENT |
| UW25     | AM           | RUQ      | WESTON                 |
| UH10     | DE           | RRO, RSJ | TEPS                   |
|          | LX           | RRO      | METCALF & EDDY         |
| SD18     | LX           | RFN      | METCALF & EDDY         |
|          | DE           | RSR      | TEPS                   |
| CC8      | AM           | RQC, RUP | WESTON                 |
|          | RK           | RUP      | HARDING LAWSON         |
|          | RK           | RUP      | CLASS-SEWAGE TREATMENT |
| UH11     | <b>F.K</b>   | RVJ      | CLASS-SEWAGE TREATMENT |
| AAA8     | яK           | RVP      | CLASS-BASIN A          |



January 24,1992 Page 2

8VA

RK RK RVX, RWZ RSG

HARDING LAWSON CLASS-BASIN A

for Ron Mander

DataChem Laboratories has no corrective actions to report.

Sincerely,

Ron Marsden

Quality Assurance Section Manager

cs: D. Gayer

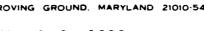
L. Eggenberger T. Mikesell



### DEPARTMENT OF THE ARMY

### US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401



March 9, 1992



Technical Support Division

Mr. Stephen Spellenberg Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Spellenberg:

The control charts which you submitted with your letter dated February 18, 1992, for work done at Badger Army Ammunition Plant, U.S. Army Cold Regions Research and Engineering Laboratory, Fort Devens, Rocky Mountain Arsenal, and Jefferson Proving Ground in support of contract numbers DAAA15-91-D-0008, DAAA15-90-D-0012, DAAA15-87-D-0016, and DAAA15-90-D-0007, have been reviewed. Methods, lots, and installations are provided at the enclosure. The following comments apply to this submission:

- Method SS16 Lot MEO is acceptable.
- Method LM16 Lots VHY, VID, and VHZ are acceptable. b.
- c. Method LM15 - Lot SIO is acceptable.
- d. Method TT08 Lot IFU is acceptable.
- Method JB03 Lot DDX is acceptable. e.
- f. Method KY07 Lot ZSM is acceptable.
- g. Method LW29 This Agency agrees that lots LBK and LBL should be reported as method "99" due to extraction outside of holding times. Corrective action has been reviewed and is acceptable.
  - Method SB03 Lots DDT and DDW are acceptable. h.
  - i. Method SD24 - Lots FLT and FLU are acceptable.
  - Method TY12 Lots ZSI and ZSL are acceptable. j.
  - Method UM33 Lot VIC is acceptable. k.

1. Method UW31 - Lots LAT, LAZ, and LBF are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data pertaining to Rocky Mountain Arsenal should be transferred to D. P. Associates at the Arsenal.

Questions or comments concerning this review should be directed to Ms. Jennifer Cook at (410) 671-1574/3348.

Sincerely,

Robert D. Murray

Contracting Officer's

Representative DAAA15-87-D-0016

James J. McKenna

Contracting Officer's Representative

DAAA15-91-D-0008

James D. Daniel

Contracting Officer's

Representative

DAAA15-90-D-0012

Charles A. Lechner Contracting Officer's Representative

DAAA15-90-D-0007

### Enclosure

Copies Furnished (with enclosure):

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, V Portland, Maine 04112

Mr. Harry D. Williams, Sirrine Environmental Consultants/ Donohue, 743 Horizon Court, Suite 240, Grand Junction, Colorado 81506

Ms. Marcia Meredith, Ecology and Environmental, Inc., 368 Pleasantview Drive, Lancaster, New York 14086



| Lot | Delivery<br>Order | Installation | Method | Analysis      | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------|---------------------|----------------------|------------------------------|
| MEO | ABB               | BA           | SS16   | ICP Water-ABB | 24-Jan-92           | 20                   |                              |

ABB Contract Number DAAA15-91-D-008

## Weekly Control Chart Summary

### February 18, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|----------------------|------------------------------|
| VHY | E&E               | CE           | LM16   | Voas GCMS Soil  | 20-Jan-92           | 5                    |                              |
| VHZ | E&E               | CE           | LM16   | Voas GCMS Soil  | 29-Jan-92           | 6                    |                              |
| VID | E&E               | CE           | LM16   | Voas GCMS Soil  | 23-Jan-92           | 9                    |                              |
| SIO | E&E               | DV           | LM15   | Semivoas GCMS S | 30-Jan-92           | 1                    |                              |
| MEO | E&E               | DV           | SS16   | ICP Water       | 24-Jan-92           | 10                   |                              |

E&E Contract Number DAAA15-90-0012

y Control Chart Summary

February 18, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| IFU | 50                | RK           | TT08   | Ion Chrom Water | 04-Feb-92           | 5                 |                              |

February 18, 1992

| Lot | Delivery<br>Order | Installation | Method  | Analysis        | Date of<br>Analysis | Number of Samples | Previou<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|-----------------|---------------------|-------------------|-----------------------------|
| DDX |                   |              | JB03    | Mercury Soil    | 30-Jan-92           | 19                |                             |
| ZSM | CNES              | JF           | KY07    | Cyanide in Soil | 30-Jan-92           | 19                |                             |
| LBK | CNES              | JF .         | LW29    | Herbicides/Soil | 11-Feb-92           | 14                |                             |
| LBL | CNES              | JF .         | LW29    | Herbicides/Soil | 12-Feb-92           | 14                |                             |
| DDT | CNES              | JF .         | SB03    | Mercury Water   | 29-Jan-92           | 22                |                             |
| DDW | CNES              | JF .         | SB03    | Mercury Water   | 30-Jan-92           | 23                |                             |
| FLT | CNES              | JF           | SD24-AG | Graphite Furnac | 06-Feb-92           | 22                |                             |
| -LU | CNES              | JF           | SD24-AG | Graphite Furnac | 07-Feb-92           | 22                |                             |
| ZSI | CNES              | JF           | TY12    | Cyanide Water M | 27-Jan-92           | 20                |                             |
| ZSL | CNES              | JF.          | TY12    | Cyanide Water M | 29-Jan-92           | 19                |                             |
| VIC | CNES              | JF .         | UM33    | Voas GCMS Water | 22-Jan-92           | 3                 |                             |
| AT  | CNES              | JF           | UW31    | Herbicides/Wate | 31-Jan-92           | 8                 | <u> </u>                    |
| AZ  | CNES              | JF           | UW31    | Herbicides/Wate | 03-Feb-92           | 10                |                             |
|     |                   | JF           | UW31    | Herbicides/Wate | 03-Feb-92           | 12                |                             |

SEC Donohue (CNES) Contract Number DAA15-90-0007



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010-5401

March 9, 1992



Technical Support Division

Mr. Stephen P. Spellenberg Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Spellenberg:

The control charts submitted with your letter dated February 7, 1992, for work done at Picatinny and Rocky Mountain Arsenals, Badger Army Ammunition Plant, U.S. Army Cold Regions Research and Engineering Laboratory, Fort Devens, and Jefferson Proving Ground, under contract numbers DAAA15-87-D-0016, DAAA15-91-D-0008, DAAA15-90-D-0012, and DAAA15-90-D-0007, have been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method TT08 Lot IFT is acceptable.
- b. Method SS16 Lots MEN and MEL are acceptable.
- c. Method SD24 Lots FLC, FLD, FLJ, FKU, FKZ, FLE, FLK, FKV, FLA, FLF, FLM, FLB, FLG, FLL, and FLN are acceptable. The cause of the greater than 100 percent recovery for arsenic in lots FKZ, FLE, and FLK should be investigated.
  - d. Method UW26 Lot EFL is acceptable.
  - e. Method UM16 Lots SIH, SIG, and SIF are acceptable.
  - f. Method KT04 Lots IFN, IFP, IFR, and IFS are acceptable.
  - g. Method LM16 Lot VHW is acceptable.
  - h. Method UM33 Lots VHX, VIA, and VIB are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. The data pertaining to Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Questions or comments concerning this review should be addressed to Ms. Jennifer J. Cook, (410) 671-1574/3348.

Sincerely,

Robert D. Murray Contracting Officer's Representative DAAA15-87-D-0016

James D. Daniel Contracting Officer's Representative DAAA15-90-D-0012 James J. McKenna Contracting Officer's Representative DAAA15-91-D-0008

Charles A. Lechner
Contracting Officer's
Representative
DAAA15-90-D-0007

### **Enclosure**

Copies Furnished (with enclosure):

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050,
Portland, Maine 04112
Mr. Tom Dabrowski, Chem-Nuclear Remediation, Inc.,
743 Horizon Court, Suite 200, Grand Junction, Colorado 81506
Ms. Marcia Meredith, Ecology and Environmental, Inc.,
368 Pleasantview Drive, Lancaster, New York 14086

## eekly Control Chart Summary

February 7, 1992

| Lot | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|------------------|---------------------|----------------------|------------------------------|
| FLD | ABB               | BA           | SD24-AG | Graphite Furnace | 09-Jan-92           | 30                   |                              |
| FLJ | ABB               | BA           | SD24-AG | Graphite Furnace | 10-Jan-92           | 20                   |                              |
| FKU | ABB               | BA           | SD24-AS | Graphite Furnace | 18-Dec-91           | 19                   |                              |
| FLE | ABB               | BA           | SD24-AS | Graphite Furnace | 09-Jan-92           | 30                   |                              |
| FLK | ABB               | BA           | SD24-AS | Graphite Furnace | 13-Jan-92           | 20                   |                              |
| FLG | ABB               | BA           | SD24-PB | Graphite Furnace | 16-Jan-92           | 30                   |                              |
| FLL | ABB               | BA           | SD24-PB | Graphite Furnace | 16-Jan-92           | 20                   |                              |
| FLN | ABB               | BA           | SD24-PB | Graphite Furnace | 15-Jan-92           | 43                   |                              |
| FKV | ABB               | BA           | SD24-SE | Graphite Furnace | 18-Dec-91           | 19                   |                              |
| FLF | ABB               | BA           | SD24-SE | Graphite Furnace | 09-Jan-92           | 30                   |                              |
| FLM | ABB               | BA           | SD24-SE | Graphite Furnace | 13-Jan-92           | 20                   |                              |
| MEN | ABB               | BA           | SS16-B  | ICP Water        | 16-Jan-92           | 41                   |                              |
| SIF | ABB               | BA           | UM16    | Semivoas GCMS W  | 23-Dec-91           | 13                   |                              |
| SIH | ABB               | BA           | UM16    | Semivoas GCMS W  | 06-Jan-92           | 14                   |                              |

ABB Contract Number DAAA15-91-D-008

## Weekly Control Chart Summary

February 7, 1992

| Lot | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report          |
|-----|-------------------|--------------|---------|------------------|---------------------|----------------------|---------------------------------------|
| VHW | E&E               | CE           | LM16    | Voas GCMS Soil   | 16-Jan-92           | 7                    |                                       |
| VIA | E&E               | CE           | UM33    | Voas GCMS Water  | 21-Jan-92           | 2                    | <del></del> -                         |
| VIB | E&E               | CE           | UM33    | Voas GCMS Water  | 22-Jan-92           | 2                    |                                       |
| FLC | E&E               | DV           | SD24-AG | Graphite Furnace | 27-Dec-91           | 34                   |                                       |
| FLJ | E&E               | DV           | SD24-AG | Graphite Furnace | 10-Jan-92           | 10                   |                                       |
| FKZ | E&E               | DV           | SD24-AS | Graphite Furnace | 20-Dec-91           | 34                   |                                       |
| FLK | E&E               | DV           | SD24-AS | Graphite Furnace | 13-Jan-92           | 10                   |                                       |
| FLB | E&E               | DV           | SD24-PB | Graphite Furnace | 31-Dec-91           | 34                   |                                       |
| FLL | E&E               | DV           | SD24-PB | Graphite Furnace | 16-Jan-92           | 10                   | · · · · · · · · · · · · · · · · · · · |
| FLA | E&E               | DV           | SD24-SE | Graphite Furnace | 20-Dec-91           | 34                   |                                       |
| FLM | E&E               | DV           | SD24-SE | Graphite Furnace | 13-Jan-92           | 10                   |                                       |
| MEL | E&E               | DV           | SS16    | ICP Water        | 23-Dec-91           | 34                   |                                       |
| SIG | E&E               | DV           | UM16    | Semivoas GCMS W  | 31-Dec-91           | 14                   |                                       |

E&E Contract Number DAAA15-90-0012

# eekly Control Chart Summary

February 7, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report          |
|-----|-------------------|--------------|--------|------------------|---------------------|----------------------|---------------------------------------|
| IFN | CNES              | JF           | KT04   | Ion Chrom Soil   | 21-Jan-92           | 5                    |                                       |
| IFP | CNES              | JF           | KT04   | Ion Chrom Soil   | 22-Jan-92           | 8                    |                                       |
| IFR | CNES              | JF.          | KT04   | Ion Chrom Soil   | 23-Jan-92           | 3                    |                                       |
| IFS | CNES              | JF .         | KT04   | Ion Chrom Soil   | 24-Jan-92           | 1                    |                                       |
| VHX | CNES              | JF           | UM33   | Voas GCMS Water  | 17-Jan-92           | 1                    |                                       |
| VIA | CNES              | JF           | UM33   | Voas GCMS Water  | 21-Jan-92           | 6                    | · · · · · · · · · · · · · · · · · · · |
| VIB | CNES              | JF           | UM33   | Voas GCMS Water  | 22-Jan-92           | 12                   |                                       |
| EFL | CNES              | JF           | UW26   | Explosives Water | 03-Feb-92           | 10                   |                                       |

CNES Contract Number DAA15-90-0007

## Weekly Control Chart Summary

## February 7, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis         | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report          |
|-----|-------------------|--------------|--------|------------------|---------------------|----------------------|---------------------------------------|
| EFL | 49                | PI           | UW26   | Explosives Water | 03-Feb-92           | 4                    | · · · · · · · · · · · · · · · · · · · |
| IFT | 50                | RK           | TT08   | Ion Chrom Water  | 29-Jan-92           | 4                    |                                       |
|     |                   |              |        |                  |                     |                      |                                       |



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND. MARYLAND 21010-5401

March 10, 1992



Technical Support Division

Mr. Ron Marsden
DataChem Laboratories, Inc.
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

The control charts submitted with your letter dated February 17, 1992, under several contracts, have been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method KT07 Lots RWL and RZJ are acceptable.
- b. Method B9 Lot RDS is acceptable.
- c. Method JS12 Based on the fact that antimony was not detected or detected only at levels in the low spike range, lots QWZ, RGD, RJJ, RLY, QWP, RES, and RCP are acceptable. Copper for those field samples found in the low spike range should be flagged with the code "N" in lot RES. DataChem Laboratories neglected to address the out-of-control points for sodium in the duplicate high spikes for several lots. The laboratory is reminded that comments should be provided for all analytes outside of the control limits.
  - d. Method Y9 Lots RKY and RYG are acceptable.
  - e. Method KF17 Lots RWM and RZK are acceptable.
- f. Method LH17 Lots RUE and RYH are acceptable. The laboratory should aggressively investigate the downward trend for most of the analytes. It appears that lot RYH was analyzed for PCBs only. The laboratory should clearly state when a lot is not analyzed for all of the analytes.

7

- g. Method JD20 Lots RLZ, QWO, RCR, RGG, QWY, RJN, and REV are acceptable. The corrective action for the misspike of the high spikes for lots RGG, RJN, and QWY has been reviewed and is acceptable.
  - h. Method AA9 Lot SAZ is acceptable.
  - i. Method LM23 Lots RZY and SBJ are acceptable.
  - j. Method AX8 Lots RUN, RQD, RZR, and RBJ are acceptable.
  - k. Method TF34 Lots RYO, SAW, and SCF are acceptable.
  - 1. Method AT8 Lots RXE and RYY are acceptable.
  - m. Method P8 Lot RZX is acceptable.
- n. Method SS12 Lot RPR is acceptable. The corrective action for the missing high spike has been reviewed and is acceptable.
  - o. Method SD18 Lot RBI is acceptable.
- p. Method CC8 Lots RXC, RZD, SAT, RZS, and RYQ are acceptable.
  - q. Method KK8 Lots SAE and SCO are acceptable.
- r. Method UH20 Lots RUS and RYN are acceptable. The laboratory should continue to investigate the cause of the higher recoveries.
  - s. Method SD25 Lot RBG is acceptable.
- t. Method UM25 Lots QYQ, ROB, ROX, RPY, RUR, RWP, and RRG are acceptable. The corrective action for the late submittal of lot QYQ has been reviewed and is acceptable.
  - u. Method AV8 Lots SAC, SAN, and SCR are acceptable.
- v. Method N8 Lots SAB, SAM, and SCQ are acceptable. Since the upward trend of the last seven lots for chloroform in the low spike was not mentioned, be reminded that all trends must be addressed.
  - w. Method UM21 Lots RZV and SBW are acceptable.
- All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data pertaining to Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Questions or comments concerning this review should be addressed to Ms. Jennifer J. Cook, (410) 671-1574/3348.

Sincerely,

Darlene F. Bader Contracting Officer's Representative

DAAA15-87-D-0017

Dominique K. Edwards

Contracting Officer's Representative DAAA15-90-D-0008

Conrad L. Swann Contracting Officer's

Representative DAAA15-90-D-0009

James J. McKenna

Contracting Officer's

Representative DAAA15-91-D-0008

Randall J. Cerar

Contracting Officer's

Representative DAAA15-90-D-0016

Robin L. Stein

Contracting Officer's

Representative DAAA15-91-D-0013

Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180

Ms. Gail DeRuzzo, Roy F. Weston, Inc., 208 Welsh Pool Road, Lionville, Pennsylvania 19341-1313

Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City, Colorado 80037-0177

Mr. Steve Brown, EA Laboratories, 19 Loveton Circle, Sparks, Maryland 21152

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Mr. Bruce King, Engineering Science, Inc., 75 North Fair Oaks Avenue, Pasadena, California 91103

Mr. David Sharp, Metcalf & Eddy, Inc., 2800 Corporate Exchange Drive, Suite 250, Columbus, Ohio 43231

Mr. Don Campbell, Harding Lawson Associates, 1301 Pennsylvania Street, Suite 200, Denver, Colorado 80208

Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547



February 17,1992 Refer to: 92A047

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0061,62,63,64,65(CLASS)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

Contract #: DAAA-15-90-D-0008(ENGINEERING SCIENCE)

Contract #: DAAA-15-90-0016(METCALF & EDDY)

Contract #: DAAA-15-90-0009(ROY F. WESTON)

Contract #: DAAA-15-91-D-0013(HARDING LAWSON)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method # | Installation | Lot #                          | Contractor     |
|----------|--------------|--------------------------------|----------------|
| - KT07   | RK           | RWL, RZJ                       | WOODWARD CLYDE |
| . B9     | MA           | RDS                            | WESTON         |
| JS12     | LX           | QWZ,RGD,RJJ,RLY<br>QWP,RES     | METCALF & EDDY |
|          | DE           | RLY                            | VERSAR         |
|          | SB           | RLY                            | HARDING LAWSON |
|          | RK           | RCP                            | HARDING LAWSON |
| › Y9     | RK           | RYK                            | WOODWARD CLYDE |
|          | AM           | RYG                            | WESTON         |
| KF17     | AM           | RWM                            | WESTON         |
|          | RK           | RWM, RZK                       | WOODWARD CLYDE |
| LH17     | AM           | RUE, RYH                       | WESTON         |
| . JD20   | DE           | RLZ                            | VERSAR         |
|          | LX           | RGG,QWY,RJN,PEV<br>RLZ,QWO,RCF | METCALF & EDDY |
|          | SB           | RLZ                            | HARDING LAWSON |
|          |              |                                |                |

ebruary 17,1992 Page 2

| AA9  | RK | SAZ                | WOODWARD CLYDE         |
|------|----|--------------------|------------------------|
| LM23 | RK | RZY,SBJ            | WOODWARD CLYDE         |
|      | AM | RZY                | WESTON                 |
| AX8  | AM | RUN, RQD, RZR      | WESTON                 |
|      | RK | RUN                | HARDING LAWSON         |
|      | TY | RBJ                | E.A. ENGINEERING       |
| TF34 | AM | RYO                | WESTON                 |
|      | RK | RYO, SAW, SCF      | HARDING LAWSON         |
| AT8  | RK | RXE,RYY            | HARDING LAWSON         |
| P8   | RK | RZX                | CLASS-NORTH BOUNDARY   |
| 5512 | RK | RPR                | WOODWARD CLYDE         |
| SD18 | TY | RBI                | E.A. ENGINEERING       |
| CCB  | RK | RXC,RZD,SAT        | HARDING LAWSON         |
|      | AM | RZS, RYQ           | WESTON                 |
| KK8  | RK | SAE                | HARDING LAWSON         |
|      | RK | SAE,SCO            | CLASS-SEWAGE TREATMENT |
| UH20 | AM | RUS, RYN           | WESTON                 |
| SD25 | TY | RBG                | E.A. ENGINEERING       |
| UM25 | RK | QYQ                | CLASS-BASIN A          |
|      | AM | QYQ, ROB, ROX, RPY | WESTON                 |
|      |    | ·RUR, RWP          |                        |
|      | RK | QYQ                | HARDING LAWSON         |
|      | LX | RRG, ROB, ROX, RPY | METCALF & EDDY         |
| AV8  | RK | SAC, SAN           | HARDING LAWSON         |
|      | RK | SCR                | CLASS-BASIN A          |
| N8   | RK | SAB, SAM           | HARDING LAWSON         |
|      | RK | SCQ                | CLASS-BASIN A          |
| UM21 | RK | RZV, SBW           | HARDING LAWSON         |
| J.,  | AM | RZV                | WESTON                 |
|      |    | <del>-</del>       |                        |

DataChem Laboratories has corrective actions to report.

RedSesselve for Non Mauden

Ron Marsden

Ovaliant Quality Assurance Section Manager

cs: D. Gayer

L. Eggenberger T. Mikesell



### US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401

March 10, 1992



Technical Support Division

Mr. Ron Marsden
DataChem Laboratories, Inc.
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

The control charts submitted with your letter dated February 11, 1992, under several contracts, have been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method B9 Lots RJM, RCQ, REU, QWL, QWV, and RMB are acceptable.
  - b. Method KF15 Lot RYD is acceptable.
- c. Method JD21 Lots QWM, RJL, QWW, RLX, RCS, RET, and RSZ are acceptable.
  - d. Method LH17 Lots RLU, RNK, RRM, and RSM are acceptable.
- e. Method TT09 Lot RVQ is acceptable; however, the laboratory should verify the spiking technique and spiking solution since recoveries for the high spikes for all three of the control analytes are just below the lower control limit.
- f. Method AX8 Lots ROJ, QZC, RLH, RNP, RPH, QXY, QZP, and REM are acceptable.
  - g. Method AY8 Lots RZF and RXU are acceptable.
  - h. Method AT8 Lot RXW is acceptable.

- i. Method SS12 Lots ROR, RIW, QYZ, RFM, RLI, REL, RUO, RST, RNL, and QYJ are acceptable. The laboratory should investigate the cause of the high recoveries for the low spikes for lead in lots RNL and RUO. The hits for lead in the field samples in lots RNL and RUO should be flagged with the code "H."
- j. Method SD18 Lots RDN, ROF, QZB, RLE, and QYK are acceptable.
  - k. Method LL8 Lot RUT is acceptable.
  - 1. Method UH11 Lots RWA and RXV are acceptable.
- m. Method UN01 Lot RVH is acceptable. The corrective action for the misspike, of both the low and high spikes, has been reviewed and is acceptable. The laboratory should use the utmost care to ensure the correct spiking solution is used.
- n. Method KK8 Lots RVN, RVF, RXS, and RVR are acceptable. Positive hits in lot RVR for DDT should be flagged with the code "H." The laboratory should investigate the cause of the high recoveries for DDT in both the high and low spikes. The analyte CL6CP in lot RVF should be reported as method "99" in a separate lot.
  - o. Method AAA8 Lots RXR, SAF, and RVW are acceptable.
- p. Method UH20 Lots RSI, RRH, RNC, RRH, ROW, RPZ, and RPT are acceptable. Positive samples for lindane in lot RRH should be flagged with the code "H."
  - q. Method SD25 Lot RLG is acceptable.
- r. Method AV8 Lots RXQ, SAG, RXK, RXY, and RYU are acceptable. It appears that lot SAG was analyzed for benzene only. Be reminded that the laboratory should state such relevant facts in the commentary.
- s. Method N8 Lots RXP, SAH, RXL, RXZ, and RYV are acceptable.
  - t. Method UM21 Lot RSX is acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data pertaining to Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Questions or comments concerning this review should be addressed to Ms. Jennifer J. Cook, (410) 671-1574/3348.

Sincerely,

Darlene F. Bader
Contracting Officer's
Representative
DAAA15-87-D-0017

Dominique K. Edwards
Contracting Officer's
Representative
DAAA15-90-D-0008

Conrad L. Swann
Contracting Officer's
Representative
DAAA15-90-D-0009

James J. McKenna Contracting Officer's Representative DAAA15-91-D-0008

Randall J. Cerar Contracting Officer's Representative DAAA15-90-D-0016

Robin L. Stein Contracting Officer's Representative DAAA15-91-D-0013

11/2 JT

#### Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180
Ms. Gail DeRuzzo, Roy F. Weston, Inc., 208 Welsh Pool Road,
Lionville, Pennsylvania 19341-1313
Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City, Colorado 80037-0177

Mr. Steve Brown, EA Laboratories, 19 Loveton Circle, Sparks, Maryland 21152

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Mr. Bruce King, Engineering Science, Inc., 75 North Fair Oaks Avenue, Pasadena, California 91103

Mr. David Sharpe, Metcalf & Eddy, Inc., 2800 Corporate Exchange Drive, Suite 250, Columbus, Ohio 43231

Mr. Don Campbell, Harding Lawson Associates, 1301 Pennsylvania Street, Suite 200, Denver, Colorado 80208

Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547



February 11,1992 Refer to: 92A040

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0061,62,63,64,65(CLASS)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

Contract #: DAAA-15-90-D-0008(ENGINEERING SCIENCE)

Contract #: DAAA-15-90-0016(METCALF & EDDY)

Contract #: DAAA-15-90-0009(ROY F. WESTON)

Contract #: DAAA-15-91-D-0013(HARDING LAWSON)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method # | Installation | Lot #                      | Contractor       |
|----------|--------------|----------------------------|------------------|
| B9       | LX           | RJM,RCQ,REU,QWL<br>QWV,RMB | METCALF & EDDY   |
|          | DE           | RMB                        | VERSAR           |
|          | SB           | RMB                        | HARDING LAWSON   |
| KF15     | AM           | RYD                        | WESTON           |
| JD21     | LX           | QWM,RJL,QWW,RLX<br>RCS,RET | METCALF & EDDY   |
|          | DE           | RLX                        | VERSAR           |
|          | SB           | RLX                        | HARDING LAWSON   |
|          | BA           | RSZ                        | E.A. ENGINEERING |
| LH17     | LX           | RLU, RNK                   | METCALF & EDDY   |
|          | DE           | RRM, RSM                   | VERSAR           |
|          | SB           | RRM                        | HARDING LAWSON   |
| TT09     | RK           | RVQ                        | HARDING LAWSON   |
| AX8      | LX           | ROJ, QZC, RLH              | METCALF & EDDY   |
|          | AM           | RNP, RPH, QXY              | Weston           |
|          | RK           | QZP, REM                   | HARDING LAWSON   |

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### February 11,1992 Page 2

| AY8  | RK | RZF,RXU            | HARDING LAWSON         |
|------|----|--------------------|------------------------|
|      | RK | RZF                | CLASS-SEWAGE TREATMENT |
| AT8  | RK | RXW                | HARDING LAWSON         |
| SS12 | RK | ROR                | WOODWARD CLYDE         |
|      | LC | RIW                | B.A. BNGINEBRING       |
|      | SB | RIW                | HARDING LAWSON         |
|      | LX | QYZ,RFM,RLI        | METCALF & EDDY         |
|      | RK | REL, RUO           | HARDING LAWSON         |
|      | DE | RST                | VERSAR                 |
|      | AM | RNL                | WESTON                 |
|      | TY | QYJ                | B.A. ENGINEERING       |
| SD18 | LX | RDN, ROF, QZB, RLE | METCALF & EDDY         |
|      | TY | QYK                | B.A. ENGINEERING       |
| LL8  | AM | RUT                | Weston                 |
|      | RK | RUT                | HARDING LAWSON         |
| UH11 | RK | RWA, RXV           | HARDING LAWSON         |
| UN01 | RK | RVH                | CLASS-SEWAGE TREATMENT |
| KK8  | RK | RVN, RVF, RXS      | CLASS-SEWAGE TREATMENT |
|      | RK | RVR                | HARDING LAWSON         |
| AAA8 | RK | RXR, SAF           | CLASS-BASIN A          |
|      | SB | RVW                | HARDING LAWSON         |
| UH20 | DE | RSI,RRH            | VERSAR                 |
|      | LX | RNC, RRH, ROW, RPZ | METCALF & EDDY         |
|      | AM | RNC, ROW, RPZ      | Weston                 |
|      | RK | RPT                | WOODWARD CLYDE         |
| SD25 | LX | RLG                | METCALF & EDDY         |
| AV8  | RK | RXQ,SAG            | CLASS-BASIN A          |
|      | RK | RXK,RXY,RYU        | HARDING LAWSON         |
| N8   | RK | RXP,SAH            | CLASS-BASIN A          |
|      | RK | RXL,RXZ,RYV        | HARDING LAWSON         |
| UM21 | RK | RSX                | CLASS-BASIN A          |
|      | AM | RSX                | Weston                 |

DataChem Laboratories has a corrective action to report.

Sincerely, Audsmagne for Son Manden

Ron Marsden

Quality Assurance Section Manager

cs: D. Gayer L. Eggenberger T. Mikesell



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401

March 12, 1992



Technical Support Division

Mr. Stephen P. Spellenberg Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Spellenberg:

Reference is made to your letter dated February 20, 1992, resubmitting lots that were inadvertently overlooked during the October 4, 1991, weekly submittal of control charts, under contract DAAA15-87-D-0016.

The following comments apply to this submission:

- Method SB03 Lot DDG is acceptable. This lot was submitted for work performed at Fort Devens.
- b. Method UM16 Lots SGU and SGV are acceptable. These lots were submitted for work performed at Badger Army Ammunition Plant.

All data represented in this submission should be transferred to the U.S. Army Toxic and Hazardous Materials Agency's Installation Restoration Data Management Information System.

Comments should be addressed to me, (410) 671-1571/3348.

Sincerely,

Robert D. Mufra Contracting Officer

Representative

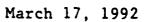
Copies Furnished:

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Ms. Marcia Meredith, Ecology and Environmental, Inc., 368 Pleasantview Drive, Lancaster, New York 14086



# US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010-5401





Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 8412 2547

Dear Mr. Marsden:

The control charts submitted with your letter dated February 25, 1992, under several contracts, have been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method B9 Lots RUF, RYF, and RWT are acceptable.
- b. Method JS12 Lots RDU, RWQ, and RUH are acceptable; however, antimony in lots RWQ and RUH should be reported as method "99" in separate lots due to extremely low recoveries.
  - c. Method Y9 Lot RMA is acceptable.
  - d. Method KF17 Lots SBN and SFH are acceptable.
- e. Method LH17 Lot QUU is acceptable; however, data for DLDRN, MEXCLR, ENDRN, HPLC, PPDDT, and LIN should be flagged with the code "H." Due to low recoveries, lot RDR is unacceptable and should be submitted as method "99."
  - f. Method JD20 Lot QOY is acceptable.
  - g. Method LM25 Lots RSW and REQ are acceptable.
- h. Method NN9 Lots SBB and SBG are acceptable. The laboratory should investigate the cause of the variability for the high spikes of all control analytes.
  - i. Method LM23 Lot SFP is acceptable.
  - j. Method AX8 Lot RYP is acceptable.

- k. Method TF34 Lot SDT is acceptable.
- 1. Method AY8 Lots SAV, SBU, SDC, SCS, and SFL are acceptable.
  - m. Method AT8 Lots SAQ, SBR, and SCY are acceptable.
- n. Method LL8 Lots RXI, RZA, SAS, SBZ, and SDQ are acceptable.
  - o. Method UH11 Lots RWW and RYW are acceptable.
  - p. Method KK8 Lots SFM, RWX, and RYA are acceptable.
- q. Method AAA8 Lots RWY, RXX, RYZ, SAO, SBO, SCX, SCP, and SFJ are acceptable.
  - r. Method UH20 Lot ROP is acceptable.
  - s. Method SD25 Lot RFP is acceptable.
  - t. Method N8 Lots SBQ, SCB, and SEV are acceptable.
  - u. Method UM21 Lots SBY and SEK are acceptable.
  - v. Method UM25 Lot RND is acceptable.
  - w. Method AV8 Lots SBP, SCC, and SEU are acceptable.
- x. Method SS12 Lots RUO, RQE, QYA, RBF, and RPJ are acceptable. The corrective action for the incorrect spiking solution has been reviewed and is acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data pertaining to Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Questions or comments concerning this review should be addressed to Ms. Jennifer J. Cook, (410) 671-1574/3348.

Sincerely,

Darlene F. Bader Contracting Officer's Representative

DAAA15-87-D-0017

Dominique K. Edwards
Contracting Officer's
Representative
DAAA15-90-D-0008

.....

Conrad L. Swann
Contracting Officer's
Representative
DAAA15-90-D-0009

James J. McKenna Contracting Officer's Representative DAAA15-91-D-0008

Randall J. Cerar Contracting Officer's Representative DAAA15-90-D-0016

Robin L. Stein
Contracting Officer's
Representative
DAAA15-91-D-0013

Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Ms. Gail DeRuzzo, Roy F. Weston, Inc., 208 Welsh Pool Road,

Lionville, Pennsylvania 19341-1313

Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City, Colorado 80037-0177
Mr. Steve Brown, EA Laboratories, 19 Loveton Circle, Sparks,

Mr. Steve Brown, EA Laboratories, 19 Loveton Circle, Sparks, Maryland 21152

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Mr. Bruce King, Engineering Science, Inc., 75 North Fair Oaks Avenue, Pasadena, California 91103

Mr. David Sharp, Metcalf & Eddy, Inc., 2800 Corporate Exchange Drive, Suite 250, Columbus, Ohio 43231

Mr. Don Campbell, Harding Lawson Associates, 1301 Pennsylvania Street, Suite 200, Denver, Colorado 80208

Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547
Ms. Darlene Bader, CETHA-TS-C



February 25, 1992 Refer to: 92A055

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0061,62,63,64,65(CLASS)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

Contract #: DAAA-15-90-D-0008(ENGINEERING SCIENCE)

Contract #: DAAA-15-90-0016(METCALF & EDDY)

Contract #: DAAA-15-90-0009(ROY F. WESTON)

Contract #: DAAA-15-91-D-0013(HARDING LAWSON)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

|     | Method # | Installation | Lot #           | Contractor             |
|-----|----------|--------------|-----------------|------------------------|
|     | B9 ~     | AM           | RUF, RYF, RWT   | WESTON                 |
|     | JS12 V   | AM           | RDU, RWQ, RUH - | Weston                 |
|     | ¥9 ~     | DE           | RMA*            | VERSAR                 |
|     |          | SB           | RMA+            | HARDING LAWSON         |
| _   | KF17 ~   | RK           | SBN , SFH       | WOODWARD CLYDE         |
| -   | LH17 ~   | AM           | QUU, RDR        | WESTON                 |
|     |          | LX           | RDR             | METCALF & EDDY         |
| ٠., | JD20 ∽   | BA           | OOA             | E.A. ENGINEERING       |
|     | LM25~    | AM           | RSW             | WESTON                 |
|     |          | LX           | REQ             | METCALF & EDDY         |
| 1   | NN9 ~    | RK           | SBB, SBG        | WOODWARD CLYDE         |
|     | LM23 ~   | RK           | SFP             | WOODWARD CLYDE         |
| _1  | AX8      | MA           | RYP             | WESTON                 |
|     | TF34     | RK           | SDT             | HARDING LAWSON         |
| ~   | 2.017    | RK           | SDT             | CLASS-BASIN A          |
|     | AY8 🛩    | RK           | SAV, SBU, SDC   | HARDING LAWSON         |
| 77  | niv '    | RK           | SCS, SFL        | CLASS-SEWAGE TREATMENT |

February 25,1992 Page 2-

| AT8         | RK | SAQ, SBR, SCY       | HARDING LAWSON         |
|-------------|----|---------------------|------------------------|
| - SS12 ·    | AM | RUO*, RQE, QYA, RPJ | WESTON                 |
|             | TY | RBF                 | E.A. ENGINEERING       |
| LL8 $_{ u}$ | RK | RXI,RZA,SAS         | HARDING LAWSON         |
|             |    | SBZ, SDQ            |                        |
| . UH11 .    | RK | RWW,RYW             | HARDING LAWSON         |
| KK8 ~       | RK | SFM                 | CLASS-SEWAGE TREATMENT |
|             | RK | RWX,RYA             | HARDING LAWSON         |
| AAA8 🗸      | RK | RWY,RXX,RYZ,SAO     | HARDING LAWSON         |
|             |    | SBO, SCX            |                        |
|             | RK | SCP,SFJ             | CLASS-BASIN A          |
| _ UH20 →    | RK | ROP                 | WOODWARD CLYDE         |
| SD25        | LX | RFP                 | METCALF & EDDY         |
| → UM25      | AM | RND                 | WESTON                 |
| AV8         | RK | SBP, SCC            | HARDING LAWSON         |
|             | RK | SEU                 | CLASS-SEWAGE TREATMENT |
| - N8 ~      | RK | SBQ, SCB            | HARDING LAWSON         |
|             | RK | SEV                 | CLASS-SEWAGE TREATMENT |
| UM21 V      | AM | SBY                 | WESTON                 |
|             | RK | SEK                 | CLASS-BASIN A          |
|             | RK | SEK                 | HARDING LAWSON         |
|             |    |                     |                        |

\*Due to posting error, Lot  $\underline{RMA}$  was not reported to Versar and Harding Lawson at the time it was originally submitted to Metcalf & Eddy. It is resubmitted at this time to Class, Versar, and Harding Lawson.

\*Due to posting error, Lot <u>RUO</u> was not reported to Weston at the time it was originally submitted to Harding Lawson. It is resubmitted at this time to Class and Weston.

DataChem Laboratories has corrective actions to report.

for Son Marsden

Sincerely,

Ron Marsden

Quality Assurance Section Manager

cs: D. Gayer

L. Eggenberger

T. Mikesell



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401

March 25, 1992



Technical Support Division

Mr. Stephen Spellenberg Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Spellenberg:

Your control chart submission dated February 28, 1992, under several contracts, has been reviewed. The methods, lots, and installations are listed at the enclosure.

#### Comments are as follows:

- a. Method LW26 Lot EFN is acceptable.
- b. Method TT08 Lot IFW is acceptable.
- c. Method UW26 Lot EFK is acceptable.
- d. Method JD13 Lot FLY is acceptable.
- e. Method SD24 Lots FLQ, FLV, FLS, FLX, FLR, and FLW are acceptable.
  - f. Method UN05 Lots GAZ and GBC are acceptable.
- g. Method UM16 Lots SII, SIJ, SIK, SIF, SIG, SIM, SIP, SIQ, SIN, and SIR are acceptable. The stated problem with the overbasification must be investigated further with corrective action taken to minimize its reoccurrence. The overall variability in the method is of some concern. The method needs to be monitored closely, and action shall be taken to improve the precision.

Potomac Research, Inc., will be notified as to the acceptability of the data. The data pertaining to Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Questions or comments concerning this review should be addressed to Mr. Martin H. Stutz at (410) 671-1568/3348.

Sincerely,

Robert D. Murray

Contracting Officer's

Representative DAAA15-87-D-0016

James D. Daniel

Contracting Officer's

Representative DAAA15-90-D-0012

James J McKenna Contracting Officer's Representative DAAA15-91-D-0008

Charles A. Lechner Contracting Officer's

Representative DAAA15-90-D-0007

Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman) Commerce City, Colorado 80022-2180

Dr. Jack Pantleo, D. P. Associates, P.O. Box 177, Commerce City, Colorado 80037-0177

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Mr. Harry D. Williams, SEC/Donohue, 743 Horizon Court, Suite 240, Grand Junction, Colorado 81056

Ms. Marcia Meredith, Ecology and Environmental, Inc., 368 Pleasantview Drive, Lancaster, New York 14086

kly Control Chart Summary

February 28, 1992

| Lot | Delivery<br>Order | Installation | Method  | Analysis              | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|-----------------------|---------------------|-------------------|------------------------------|
| FLY | CNES              | JF.          | JD13-AS | Graphite Furn Soil    | 19-Feb-92           | 19                |                              |
| EFN | CNES              | JF           | LW26    | Explosives Soil       | 15-Feb-92           | 19                |                              |
| FLQ | CNES              | JF .         | SD24-AS | Graphite Furnac Water | 11-Feb-92           | 22                |                              |
| FLV | CNES              | JF .         | SD24-AS | Graphite Furnac Water | 12-Feb-92           | 22                | = =                          |
| FLS | CNES              | JF           | SD24-PB | Graphite Furnac Water | 14-Feb-92           | 22                |                              |
| FLX | CNES              | JF           | SD24-PB | Graphite Furnac Water | 18-Feb-92           | 22                |                              |
| FLR | CNES              | JF .         | SD24-SE | Graphite Furnac Water | 06-Feb-92           | 22                |                              |
| FLW | CNES              | JF           | SD24-SE | Graphite Furnac Water | 07-Feb-92           | 22                |                              |
| SIR | CNES              | <b>JF</b>    | UM16    | Semivoas GCMS Water   | 30-Jan-92           | 6                 |                              |
| GAZ | CNES              | JF           | UN05    | NP Pest Water         | 18-Feb-92           | 17                |                              |
| GBC | CNES              | JF .         | UN05    | NP Pest Water         | 19-Feb-92           | 12                |                              |
| EFK | CNES              | JF .         | UW26    | Explosives Water      | 07-Feb-92           | 19                |                              |

SEC Donohue (CNES) Contract Number DAA15-90-0007

## Weekly Control Chart Summary

## February 28, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis            | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------------|---------------------|-------------------|------------------------------|
| SIF | ABB               | BA           | UM16   | Semivoas GCMS Water | 23-Dec-91           | 13                | 07-Feb-92                    |
| SII | ABB               | BA           | UM16   | Semivoas GCMS Water | 07-Jan-92           | 14                |                              |
| SIJ | ABB               | BA           | UM16   | Semivoas GCMS Water | 09-Jan-92           | 14                |                              |
| SIM | ABB               | BA           | UM16   | Semivoas GCMS Water | 16-Jan-92           | 13                |                              |
| SIP | ABB               | BA           | UM16   | Semivoas GCMS Water | 23-Jan-92           | 14                |                              |
| SIQ | ABB               | BA           | UM16   | Semivoas GCMS Water | 24-Jan-92           | 13                |                              |

ABB Contract Number DAAA15-91-D-008

### ekly Control Chart Summary February 28, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis            | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------------|---------------------|-------------------|------------------------------|
| SIG | E&E               | DV           | UM16   | Semivoas GCMS Water | 31-Dec-91           | 14                | 07-Feb-92                    |
| SIK | E&E               | DV           | UM16   | Semivoas GCMS Water | 10-Jan-92           | 11                |                              |
| SIN | E&E               | DV           | UM16   | Semivoas GCMS Water | 28-Jan-92           | 8                 |                              |

E&E Contract Number DAAA15-90-0012



US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401



May 12, 1992

Technical Support Division



Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission of April 24, 1992, for Badger Army Ammunition Plant, Rocky Mountain Arsenal, and U.S. Army Cold Regions Research and Engineering Laboratory, has been reviewed. The methods, lots, and installations are listed at the enclosure.

The following comments apply to this submission:

- a. Method TT08 Lots IGC, IGD, IGE, IGF, and IGG are acceptable.
- b. Method UM33 Lots VIO, VIU, VIV, VIP, VIQ, and VIT are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Question or comments concerning this review should be addressed to Mr. Douglas T. Scarborough, (410) 671-1567/3348.

Sincerely,

Contracting Office

Representative

DAAA15-87-D-0016

Contracting Officer's Representative

DAAA15-91-D-0008

James D. Daniel

Contracting Officer's

Representative

DAAA15-90-D-0012

### Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180
Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177,
Commerce City, Colorado 80037-0177
Mr. Rod Pendleton, ABB Environmental, Inc., P.O. Box 7050,
Portland, Maine 04112
Mr. Robert Sletten, Ecology and Environment, Inc.,
368 Pleasantview Drive, Lancaster, New York 14086

### **Arthur D Little**

Arthur D. Little, Inc.

Appre Park Cambridge (Vassach) ser 02140-2390 USA

Telephone 617 86 Fax 617 661 5830 Telex 921436

April 24, 1992

Commander

U.S. Army Toxic & Hazardous Materials Agency Attn: CETHA-TS-A/Mr. Robert Murray Aberdeen Proving Ground, Maryland 21010-5401

Dear Mr. Murray:

EC#1691

Amsterdam Berlin Brussels Cambridge, U.K. Cambridge, U.S. Caracas Houston London

Houston
London
Los Angeles
Madrid

Madrid Mexico City Milan Munich

New York Paris Riyadh San Franci

San Francisco Santa Barbara São Paulo Singapore

Svdney Taipei Tokvo Toronto Washington Wiesbaden Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached table.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Theodore A. Olsson

Manager, Environmental Analysis

Environmental Technology & Analysis Section

/jmm Enclosure

# eekly Control Chart Summary April 24, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| IGC | ABB               | BA           | TT08   | Ion Chrom Water | 13-Apr-92           | 16                |                              |
| IGD | ABB               | BA           | TT08   | Ion Chrom Water | 14-Apr-92           | 21                |                              |
| IGE | ABB               | BA           | TT08   | Ion Chrom Water | 15-Apr-92           | 17                |                              |
| IGF | ABB               | BA           | TT08   | Ion Chrom Water | 16-Apr-92           | 21                |                              |
| IGG | ABB               | BA           | TT08   | Ion Chrom Water | 17-Apr-92           | 26                |                              |
| VIP | ABB               | BA           | UM33   | Voas GCMS Water | 15-Apr-92           | 7                 |                              |
| VIQ | ABB               | BA           | UM33   | Voas GCMS Water | 15-Apr-92           | 14                |                              |
| VIT | ABB               | BA           | UM33   | Voas GCMS Water | 16-Apr-92           | 11                |                              |

ABB Contract Number DAAA15-91-D-008

# Weekly Control Chart Summary April 24, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|----------------------|------------------------------|
| VIO | E&E               | CE           | UM33   | Voas GCMS Water | 14-Apr-92           | 10                   |                              |
| VIU | E&E               | CE           | UM33   | Voas GCMS Water | 17-Apr-92           | 1                    |                              |
| VIV | E&E               | CE           | UM33   | Voas GCMS Water | 20-Apr-92           | 3                    |                              |

E&E Contract Number DAAA15-90-0012

Weekly Control Chart Summary

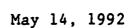
April 24, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|----------------------|------------------------------|
| 100 | <del> </del>      |              |        |                 |                     | Samples              | Repurt                       |
| IGE | 50                | RK           | TT08   | Ion Chrom Water | 15-Apr-92           | 4                    | <del></del>                  |
|     |                   |              |        |                 |                     |                      |                              |



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5401





Technical Support Division

Mr. Stephen P. Spellenberg Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Spellenberg:

The control charts submitted with your letter dated May 1, 1992, for work done at Picatinny Arsenal, Badger Army Ammunition Plant, U.S. Army Cold Regions Research and Engineering Laboratory, and Cameron Station, under several contracts, have been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method LM16 Lot VIX is acceptable.
- b. Method SB03 Lots DEA, DEB, and DEC are acceptable.
- C. Method UM33 Lots VIR, VIS, VIW, VIZ, VJA, VJB, VJC, VJD, VJE, and VJF are acceptable.
- d. Method UN06 Lots GBO, GBP, GBQ, GBR, and GBS are acceptable.
  - e. Method UW26 Lots EFT, EFU, and EFV are acceptable.
- f. This Agency acknowledges the receipt of lot PCA submitted as method 00.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc.

Questions or comments concerning this review should be addressed to Ms. Jennifer J. Cook, (410) 671-1574/3348.

Sincerely,

Contracting Of

Representative DAAA15-87-D-0016

James D. Daniel

Contracting Officer's Representative

DAAA15-90-D-0012

Contracting Officer's Representative DAAA15-91-D-0008

Rosemary Austin

Contracting Officer's

Representative DAAA15-90-D-0010

Enclosure

Copies Furnished (with enclosure):

Mr. Lawrence Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 20850 Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Ms. Marcia Meredith, Ecology and Environmental, Inc.,

368 Pleasantview Drive, Lancaster, New York 14086

# Arthur D Little

Arthur D. Little, Inc Acom Park Cambridge Massacr 02:40-2390 USA

Telephone 617 Fax 617 661 5830 Telex 921436

May 1, 1992

Commander U.S. Army Toxic & Hazardous Materials Agency Attn: CETHA-TS-A/Mr. Robert Murray Aberdeen Proving Ground, Maryland 21010-5401

Dear Mr. Murray:

EC#1713

Amsterdam Berlin Brussels Cambridge, U K Cambridge, U.S. Caracas Houston London Los Angeles

Madrid

**Mexico City** Milan Munich **New York** Paris Riyadh San Francisco

Santa Barbara São Paulo Singapore Sydney Taipei Tokyo Toronto Washington Wiesbaden

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached table.

If you have any questions, please do not hesitate to contact me.

Sincerely.

Theodore A. Olsson

Manager, Environmental Analysis

A. al

Environmental Technology & Analysis Section

/jmm Enclosure

| Lot | Delivery<br>Order | Installation | Method      | Analysis                    | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|-------------|-----------------------------|---------------------|-------------------|------------------------------|
| PCA | ABB               | BA           | 99 18W      | Tot Petroleun. Hydrocarbons | 24-Арг-92           | 1                 |                              |
| DEA | ABB               | BA           | SB03        | Mercury Water               | 16-Apr-92           | 30                |                              |
| DEB | ABB               | BA           | SB03        | Mercury Water_              | 21-Apr-92           | 37                |                              |
| DEC | ABB               | BA           | SB03        | Mercury Water               | 24-Apr-92           | 12                |                              |
| VIS | ABB               | BA           | UM33        | Voas GCMS Water             | 22-Apr-92           | 12                |                              |
| VIW | ABB               | BA           | UM33        | Voas GCMS Water             | 21-Apr-92           | 8                 |                              |
| VIZ | ABB               | BA           | UM33        | Voas GCMS Water             | 23-Apr-92           | 8                 |                              |
| VJA | ABB               | BA           | UM33        | Voas GCMS Water             | 24-Apr-92           | 14                |                              |
| VJB | ABB               | BA           | UM33        | Voas GCMS Water             | 24-Apr-92           | 13                |                              |
| VJC | ABB               | BA           | <b>UM33</b> | Voas GCMS Water             | 27-Apr-92           | 13                |                              |
| VJD | ABB               | BA           | UM33        | Voas GCMS Water             | 27-Apr-92           | 10                |                              |
| VJE | ABB               | BA           | UM33        | Voas GCMS Water             | 28-Apr-92           | 13                |                              |
| VJF | ABB               | BA           | UM33        | Voas GCMS Water             | 29-Apr-92           | 14                |                              |
| GBO | ABB               | BA           | UN06        | Nitrosamines GC             | 19-Apr-92           | 10                |                              |
| GBP | ABB               | BA           | UN06        | Nitrosamines GC             | 20-Apr-92           | 10                |                              |
| GBQ | ABB               | BA           | UN06        | Nitrosamines GC             | 21-Apr-92           | 10                |                              |
| GBR | ABB               | BA           | UN06        | Nitrosamines GC             | 22-Apr-92           | 9                 |                              |
|     | ABB               | BA           | UN06        | Nitrosamines GC             | 23-Apr-92           | 12                |                              |
|     | ABB               | BA           | UW26        | Explosives Water            | 21-Apr-92           | 18                |                              |
| EFU | ABB               | BA           | UW26        | Explosives Water            | 23-Apr-92           | 19                |                              |
| EFV | ABB               | BA           | UW26        | Explosives Water            | 27-Apr-92           | 14                |                              |

ABB Contract Number DAAA15-91-D-008

Weekly Control Chart Summary

May 1, 1992

| Lot | Delivery<br>Order | Installation | Method | A          | analysis | Date of Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|------------|----------|------------------|-------------------|------------------------------|
| EFV | 49                | PI           | UW26   | Explosives | Water    | 27-Apr-92        | 6                 |                              |



| Lot        | Delivery<br>Order | Installation | Method      | Analysis                   | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|------------|-------------------|--------------|-------------|----------------------------|---------------------|-------------------|------------------------------|
| PCA        | E&E               | CE           | 99 18W      | Tot Petroleum Hydrocarbons | 24-Apr-92           | 11                |                              |
| VIX<br>VIR | E&E               | CE           | LM16        | Voas GCMS Soil             | 22-Apr-92           | 4                 |                              |
| VIR        | E&E               | CE           | <b>UM33</b> | Voas GCMS Water            | 21-Apr-92           | 7                 |                              |
| VIW        | E&E               | CE           | UM33        | Voas GCMS Water            | 21-Apr-92           | 3                 |                              |

E&E Contract Number DAAA15-90-0012

Weekly Control Chart Summary May 1, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis       | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|----------------|---------------------|-------------------|------------------------------|
| VIX | WCFS              | СМ           | LM16   | Voas GCMS Soil | 22-Apr-92           | 9                 |                              |

WCFS Contract Number DAAA15-90-D-0010



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010-5401

March 17, 1992



Technical Support Division

Mr. Ron Marsden DataChem Laboratories 960 West LeVoy Drive Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

The control charts submitted with your letter dated February 25, 1992, under several contracts, have been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- Method B9 Lots RUF, RYF, and RWT are acceptable.
- b. Method JS12 Lots RDU, RWQ, and RUH are acceptable; however, antimony in lots RWQ and RUH should be reported as method "99" in separate lots due to extremely low recoveries.
  - c. Method Y9 Lot RMA is acceptable.
  - d. Method KF17 Lots SBN and SFH are acceptable.
- e. Method LH17 Lot QUU is acceptable; however, data for DLDRN, MEXCLR, ENDRN, HPLC, PPDDT, and LIN should be flagged with the code "H." Due to low recoveries, lot RDR is unacceptable and should be submitted as method "99."
  - f. Method JD20 Lot QOY is acceptable.
  - Method LM25 Lots RSW and REQ are acceptable. g.
- h. Method NN9 Lots SBB and SBG are acceptable. The laboratory should investigate the cause of the variability for the high spikes of all control analytes.
  - i. Method LM23 Lot SFP is acceptable.
  - j. Method AX8 Lot RYP is acceptable.

- k. Method TF34 Lot SDT is acceptable.
- 1. Method AY8 Lots SAV, SBU, SDC, SCS, and SFL are acceptable.
  - m. Method AT8 Lots SAQ, SBR, and SCY are acceptable.
- n. Method LL8 Lots RXI, RZA, SAS, SBZ, and SDQ are acceptable.
  - o. Method UH11 Lots RWW and RYW are acceptable.
  - p. Method KK8 Lots SFM, RWX, and RYA are acceptable.
- q. Method AAA8 Lots RWY, RXX, RYZ, SAO, SBO, SCX, SCP, and SFJ are acceptable.
  - r. Method UH20 Lot ROP is acceptable.
  - s. Method SD25 Lot RFP is acceptable.
  - t. Method N8 Lots SBQ, SCB, and SEV are acceptable.
  - u. Method UM21 Lots SBY and SEK are acceptable.
  - v. Method UM25 Lot RND is acceptable.
  - w. Method AV8 Lots SBP, SCC, and SEU are acceptable.
- x. Method SS12 Lots RUO, RQE, QYA, RBF, and RPJ are acceptable. The corrective action for the incorrect spiking solution has been reviewed and is acceptable.
- All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data pertaining to Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

-Questions or comments concerning this review should be addressed to Ms. Jennifer J. Cook, (410) 671-1574/3348.

#### Sincerely,

Darlene F. Bader Contracting Officer's Representative DAAA15-87-D-0017

Dominique K. Edwards
Contracting Officer's
Representative
DAAA15-90-D-00Q8

Conrad L. Swann Contracting Officer's Representative DAAA15-90-D-0009 James J. McKenna Contracting Officer's Representative DAAA15-91-D-0008

Randall J. Cerar Contracting Officer's Representative DAAA15-90-D-0016

Robin L. Stein
Contracting Officer's
Representative
DAAA15-91-D-0013

Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Ms. Gail DeRuzzo, Roy F. Weston, Inc., 208 Welsh Pool Road, Lionville, Pennsylvania 19341-1313

Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City, Colorado 80037-0177

Mr. Steve Brown, EA Laboratories, 19 Loveton Circle, Sparks, Maryland 21152

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Mr. Bruce King, Engineering Science, Inc., 75 North Fair Oaks Avenue, Pasadena, California 91103

Mr. David Sharp, Metcalf & Eddy, Inc., 2800 Corporate Exchange Drive, Suite 250, Columbus, Ohio 43231

Mr. Don Campbell, Harding Lawson Associates, 1301 Pennsylvania Street, Suite 200, Denver, Colorado 80208

Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547

Ms. Darlene Bader, CETHA-TS-C



February 25, 1992 Refer to: 92A055

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0061,62,63,64,65(CLASS)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

Contract #: DAAA-15-90-D-0008(ENGINEERING SCIENCE)

Contract #: DAAA-15-90-0016(METCALF & EDDY)

Contract #: DAAA-15-90-0009(ROY F. WESTON)

Contract #: DAAA-15-91-D-0013(HARDING LAWSON)

Enclosed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

|     | Method # | <u>Installation</u> | Lot #           | Contractor             |
|-----|----------|---------------------|-----------------|------------------------|
|     | B9 ~     | AM                  | RUF, RYF, RWT   | WESTON                 |
|     | JS12 V   | AM                  | RDU, RWO, RUH - | WESTON                 |
|     | Y9 ~     | DE                  | RMA+            | VERSAR                 |
|     |          | SB                  | RMA+            | HARDING LAWSON         |
|     | KF17 ~   | RK                  | SBN, SFH        | WOODWARD CLYDE         |
| _   | LH17 ~   | AM                  | QUU, RDR        | WESTON                 |
|     |          | LX                  | RDR             | METCALF & EDDY         |
| د.  | JD20 ~   | BA                  | COA             | B.A. ENGINEERING       |
| ٠   | LM25~    | AM                  | RSW             | WESTON                 |
|     |          | LX                  | REQ             | METCALF & EDDY         |
| _   | nn9 ~    | RK                  | SBB, SBG        | WOODWARD CLYDE         |
|     | LM23 ~   | RK                  | SFP             | WOODWARD CLYDE         |
| . 1 | AX8 ~    | AM<br>.u.           | RYP             | WESTON                 |
| _   | TP34     | RK                  | SDT             | HARDING LAWSON         |
| 7   | 7534 0   | RK                  | SDT             | CLASS-BASIN A          |
|     | AY8 🛩    |                     |                 |                        |
| ~7  | WIO A    | RK                  | SAV, SBU, SDC   | HARDING LAWSON         |
|     |          | RK                  | SCS, SFL        | CLASS-SEWAGE TREATMENT |

February 25,1992 Page 2-

| - AT8    | RK | SAQ, SBR, SCY       | HARDING LAWSON         |
|----------|----|---------------------|------------------------|
| ~ SS12·  | AM | RUO*, RQE, QYA, RPJ |                        |
|          | TY | RBF                 | E.A. ENGINEERING       |
| LL8 ,    | RK | RXI, RZA, SAS       | HARDING LAWSON         |
| •        |    | SBZ, SDQ            |                        |
| UH11     | RK | RWW, RYW            | HARDING LAWSON         |
| ¹ KK8 ∴  | RK | SFM                 | CLASS-SEWAGE TREATMENT |
|          | RK | RWX,RYA             | HARDING LAWSON         |
| AAA8 .   | RK | RWY, RXX, RYZ, SAO  | HARDING LAWSON         |
|          |    | SBO, SCX            |                        |
|          | RK | SCP, SFJ            | CLASS-BASIN A          |
| _ UH20 → | RK | ROP                 | WOODWARD CLYDE         |
| SD25     | LX | RFP                 | METCALF & EDDY         |
| ~ UM25   | AH | RND                 | WESTON                 |
| AV8 .    | RK | SBP, SCC            | HARDING LAWSON         |
|          | RK | SEU                 | CLASS-SEWAGE TREATMENT |
| - N8 ~   | RK | SBQ, SCB            | HARDING LAWSON         |
|          | RK | SEV                 | CLASS-SEWAGE TREATMENT |
| - UM21 V | AM | SBY                 | WESTON                 |
| •        | RK | SEK                 | CLASS-BASIN A          |
|          | RK | SEK                 | HARDING LAWSON         |
|          |    |                     |                        |

\*Due to posting error, Lot RMA was not reported to Versar and Harding Lawson at the time it was originally submitted to Metcalf & Eddy. is resubmitted at this time to Class, Versar, and Harding Lawson.

\*Due to posting error, Lot  $\underline{\text{RUO}}$  was not reported to Weston at the time it was originally submitted to Harding Lawson. It is resubmitted at this time to Class and Weston.

DataChem Laboratories has corrective actions to report.

Sincerely,

Rudsprague for Son Musseen Ron Marsden

Quality Assurance Section Manager

cs: D. Gayer

L. Bggenberger

T. Mikesell



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND. MARYLAND 21010-5401

April 1, 1992



Technical Support Division

Mr. Ron Marsden
DataChem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

The control charts submitted with your letter dated March 9, 1992, for Rocky Mountain Arsenal, Lexington Army Depot, and the U.S. Army Materials Technology Laboratory, have been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method KT07 Lot SBK is acceptable.
- b. Method B9 Lots RNT and RPV are acceptable.
- c. Method KF15 Lot SHH is acceptable.
- d. Method JS12 Lots RNR, RPQ, and RYE are acceptable. This method must be monitored in future lots with an explanation as to the corrective action taken for the recovery problems. An explanation shall be provided by the laboratory with the next control chart submission.
  - e. Method Y9 Lot SBH is acceptable.
  - f. Method KF17 Lot SGD is acceptable.
- g. Method LH15 Lot SCZ is acceptable. However, the laboratory must continue to investigate the lower recoveries to ensure that an out-of-control situation does not develop.
  - h. Method KK9B Lots SBE, SDP, and SHL are acceptable.
  - i. Method LH17 Lot SHJ is acceptable.
  - j. Method JD20 Lot SDE is acceptable.

- k. Method LM23 Lots SGS, SHO, SHU, and SHG are acceptable.
- 1. Method TT09 Lots RXJ, RZB, SAY, and SCG are acceptable.
- m. Method AX8 Lots RSB and RMX are acceptable.
- n. Method AY8 Lot SIJ is acceptable. This Agency concurs with your rejection of lot SER, which should be listed as method "99."
  - o. Method AT8 Lot SGL is acceptable.
  - p. Method UH11 Lot SBT is acceptable.
  - q. Method UN10 Lot SHM is acceptable.
  - r. Method KK8 Lots RYX, SAP, SHD, and SIK are acceptable.
  - s. Method AAA8 Lot SIL is acceptable.
  - t. Method AV8 Lots SGF, SIM, and SKQ are acceptable.
  - u. Method N8 Lots SGG and SIN are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data for Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Questions or comments concerning this review should be directed to Ms. Brenda F. Little, (410) 671-1575/3348.

Sincerely,

Darlene F. Bader Contracting Officer's

Representative DAAA17-87-D-0017

Robin L. Stein

Contracting Officer's

Representative DAAA15-91-D-0013

Conrad L. Swann
Contracting Officer's
Representative
DAAA15-90-D-0009

Randall J. Cerar Contracting Officer's Representative DAAA15-90-D-0016

Enclosure

### Copies Furnished (with enclosure):

- Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180
- Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City. Colorado 80037-0177
- City, Colorado 80037-0177

  Ms. Gail DeRuzzo, Roy F. Weston, Inc., 208 Welsh Pool Road, Lionville, Pennsylvania 19341-1313
- Mr. Steve Brown, EA Laboratories, 19 Loveton Circle, Sparks, Maryland 21152
- Ms. Deborah Smith, ABB Environmental, Inc., 261 Commercial Street, Portland, Maine 04112
- Mr. Bruce King, Engineering Science, Inc., 75 North Fair Oaks Avenue, Pasadena, California 91103
- Ms. Mary Beth Smecansky, Metcalf & Eddy, Inc., 2800 Corporate Exchange Drive, Suite 250, Columbus, Ohio 43231
- Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2541



March 9, 1992 Refer to: 92A078

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA15-87-0017/0061,62,63,64,65(CLASS)

Contract #: DAAA-15-90-0016(METCALF & EDDY)

Contract #: DAAA-15-90-0009(ROY F. WESTON)

Contract #: DAAA-15-91-D-0013(HARDING LAWSON)

closed are the DataChem Laboratories Quality Assurance Reports for the following analyses:

| Method # | Installation | Lot #              | Contractor             |
|----------|--------------|--------------------|------------------------|
| KT07     | RK           | SBK                | WOODWARD CLYDE         |
| В9       | RK           | RNT, RPV           | WOODWARD CLYDE         |
| KF15     | RK           | SHH                | HARDING LAWSON         |
| JS12     | RK           | RNR, RPQ           | WOODWARD CLYDE         |
|          | MA           | RYE                | WESTON                 |
| Y9       | RK           | SBH                | WOODWARD CLYDE         |
| KF17     | RK           | SGD                | WOODWARD CLYDE         |
| LH15     | RK           | SCZ                | WOODWARD CLYDE         |
| KK9B     | RK           | SBE, SDP           | WOODWARD CLYDE         |
|          | RK           | SHL                | HARDING LAWSON         |
| LH17     | RK           | SHJ                | HARDING LAWSOM         |
| JD20     | LX           | SDE                | METCALF & EDDY         |
| LM23     | RK           | SGS,SHO,SHU        | WOODWARD CLYDE         |
|          | RK           | SHG                | HARDING LAWSON         |
| TT09     | RK           | RXJ, RZB, SAY, SCG | HARDING LAWSON         |
| AX8      | RK           | RSB                | CLASS-BASIN A          |
|          | RK           | RSB                | CLASS-SEWAGE TREATMENT |
|          | RK           | RXM                | HARDING LAWSON         |
| AY8      | RK           | SER                | HARDING LAWSON         |
|          | RK           | SIJ                | CLASS-SEWAGE TREATMENT |
| AT8      | RK           | SGL                | CLASS-BASIN A          |

SALT LAKE OFFICE 961 WEST LEVOY DRIVE 54.1 LAKE CITY LITAH 84:23:0541 10: 256 TTOL FAX 80: 268:9992

CINCINNATI OFFICE 4388 GLENDALE MILFORD FIGAL DINCINNATI OHIO: 45040 DTV 513 T33 5336 FAX 513 TUX 514

C .........

March 9,1992 Page 2

| UH11 | RK | SBT         | HARDING LAWSON         |
|------|----|-------------|------------------------|
| UN10 | RK | SHM         | HARDING LAWSON         |
| KK8  | RK | RYX,SAP     | HARDING LAWSON         |
|      | RK | SHD, SIK    | CLASS-SEWAGE TREATMENT |
|      | RK | RYX         | CLASS-NORTH BOUDARY    |
| AAA8 | RK | SIL         | CLASS-BASIN A          |
| AV8  | RK | SGF,SIM,SKQ | CLASS-BASIN A          |
| N8   | RK | SGG, SIN    | CLASS-BASIN A          |

DataChem Laboratories has no corrective actions to report.

Sincerely,

Audsprague for son Marsden
Ron Marsden

Quality Assurance Section Manager

cs: D. Gayer

R. Marsden

T. Mikesell

R. Sprague



# DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND. MARYLAND 21010-5401

May 6, 1992



Technical Support Division

Mr. Ron Marsden DataChem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City, Utah 84123-2547

Dear Mr. Marsden:

The control charts submitted with your letter dated April 10, 1992, for work done at Rocky Mountain Arsenal, Lexington, Savanna, and Tobyhanna Army Depots, and Fort McClellan, have been reviewed. Methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method B9 Lot SMA is acceptable.
- b. Method JS12 Lots SGE, SHT, SMC, and SJM are acceptable; however, nickel in lot SGE should be reported as method "99" in a separate lot; and antimony in lots SHT, SMC, and SJM should be reported as method "99" in separate lots.
  - c. Method KF17 Lot SMG is acceptable.
  - d. Method AX8 Lots SMN and SOA are acceptable.
- e. Method TF34 Due to incorrect preservation of field samples, lot SNL should be reported as method "99."
  - f. Method AY8 Lot SOI is acceptable.
  - g. Method SF01 Lot SOJ is acceptable.
- h. Method SS12 Lot QUB is acceptable. Lots SLR, SLB, and SGZ have not been reviewed since the laboratory has not referenced or plotted these lots on control charts.

- i. Method CC8 Lots SNY and SMM are acceptable.
- j. Method AAA8 Lot SOE is acceptable.
- k. Method SD25 Lot SMW is acceptable.
- 1. Method AV8 Lots SOF, SOD, and SNT are acceptable.
- m. Method N8 Lots SOG, SOC, and SNU are acceptable.
- n. Method UM21 Lots SMJ and SON are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. Data pertaining to Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Questions or comments concerning this review should be addressed to Ms. Jennifer J. Cook, (410) 671-1574/3348.

Sincerely,

Darlene F. Bader
Contracting Officer's
Representative

DAAA15-87-D-0017

John P. Buck

Contracting Officer's Representative

DAAA15-91-D-0017

James J. McKenna Contracting Officer's Representative

Representative DAAA15-91-D-0008

Randall J. Cerar Contracting Officer's Representative

DAAA15-90-D-0016

Peter J. Rissell Contracting Officer's Representative DAAA15-88-D-0008

Enclosure

#### Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180

Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City, Colorado 80037-0177

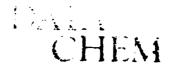
Mr. Steve Brown, EA Laboratories, 19 Loveton Circle, Sparks, Maryland 21152

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Mr. David Sharp, Metcalf & Eddy, Inc., 2800 Corporate Exchange Drive, Suite 250, Columbus, Ohio 43231

Ms. Mamie Brouwer, Science Applications International Corporation, 1710 Goodridge Drive, Mail Stop T2-4-1, McLean, Virginia 22102

Mr. Lance Eggenberger, DataChem Laboratories, 960 West LeVoy Drive, Salt Lake City, Utah 84123-2547



April 10, 1992 Refer to: 92A121

Ms. Darlene Bader Commander, USATHAMA CETHA-TS-C/D. Bader APG-EA, MD 21010-5401

Re: Quality Assurance Status Report

Contract #: DAAA-15-87-0017/0061,62,63,64,65(CLASS)

Contract #: DAAA-15-90-0016(METCALF & EDDY)-

Contract #: DAAA-15-88-0022(WOODWARD CLYDE)

Contract #: DAAA-15-88-0021(HARDING LAWSON)

Contract #: DAAA-15-91-0017(SAIC)

Contract #: DAAA-15-88-D-0008(DAMES & MOORE)

Contract #: ABB-DAAA-15-91-D-0008(E.A. ENGINEERING)

Enclosed are the DataChem Laboratories Quality Assurance Reports for

the following analyses:

| Method # | Installation | Lot #              | Contractor             |
|----------|--------------|--------------------|------------------------|
| В9       | RK           | SMA                | WOODWARD CLYDE         |
| JS12     | RK           | SGE, SHT, SMC, SJM | WOODWARD CLYDE         |
| KF17     | RK           | SMG                | WOODWARD CLYDE         |
| AX8      | RK           | SMN, SOA           | CLASS-BASIN A          |
|          | RK           | SMN                | CLASS-SEWAGE TREATMENT |
|          | RK           | SMN                | WOODWARD CLYDE         |
| TF34     | RK           | SNL                | HARDING LAWSON         |
| AY8      | RK           | SOI                | CLASS-SEWAGE TREATMENT |
| SF01     | sv           | SOJ                | DAMES & MOORE          |
| SS12     | TY           | QUB*               | E.A. ENGINEERING       |
|          | RK           | SLR                | CLASS-BASIN A          |
|          | RK           | SLR                | CLASS-NORTH BOUNDARY   |
|          | RK           | SLR                | CLASS-SEWAGE TREATMENT |
|          | MC           | SLB                | SAIC                   |
|          | RK           | SGZ                | WOODWARD CLYDE         |

SALT LAKE OFFICE 960 WEST LEWOY DRIVE 5ALT LAKE CITY UTAH 84123 254T 801 266 7100 FAX 801 268 9992

CINCINNATI OFFICE 4388 GLENDALE MILEORE RC4. CINCINNATE OHIC 45247 1704 513 733 5336 FAX 513 733 5 4 April 10,1992 Page 2

| CCB  | RK | SNY      | CLASS-BASIN A          |
|------|----|----------|------------------------|
|      | RK | SMM      | WOODWARD CLYDE         |
| 8AAA | RK | SOE      | CLASS-BASIN A          |
| SD25 | RK | SMW      | CLASS-SEWAGE TREATMENT |
| AVB  | RK | SOF, SOD | CLASS-BASIN A          |
|      | RK | SNT      | HARDING LAWSON         |
| N8   | RK | sog,soc  | CLASS-BASIN A          |
| •    | RK | SNU      | HARDING LAWSON         |
| UM21 | RK | SMJ      | WOODWARD CLYDE         |
|      | sv | SON      | DAMES & MOORE          |
|      | LX | SON      | METCALF & EDDY         |
|      | RK | SON      | HARDING LAWSON         |

\*LOT QUB is resubmitted with ALL requested analytes.

DataChem Laboratories has no corrective actions to report.

Sincerely,

Ron Marsden

ality Assurance Section Manager

S: D. Gayer

an Marin

R. Marsden

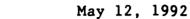
R. Sprague

T. Mikesell



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010-5401



Technical Support Division



Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission of April 24, 1992, for Badger Army Ammunition Plant, Rocky Mountain Arsenal, and U.S. Army Cold Regions Research and Engineering Laboratory, has been reviewed. The methods, lots, and installations are listed at the enclosure.

The following comments apply to this submission:

- Method TT08 Lots IGC, IGD, IGE, IGF, and IGG are acceptable.
- b. Method UM33 Lots VIO, VIU, VIV, VIP, VIQ, and VIT are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Question or comments concerning this review should be addressed to Mr. Douglas T. Scarborough, (410) 671-1567/3348.

Sincerely,

Contracting Office:

Representative DAAA15-87-D-0016

James J. McKenna

Contracting Officer's

Representative DAAA15-91-D-0008

James D. Daniel

Contracting Officer's Representative

DAAA15-90-D-0012

Enclosure

#### Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180
Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177,
Commerce City, Colorado 80037-0177
Mr. Rod Pendleton, ABB Environmental, Inc., P.O. Box 7050,
Portland, Maine 04112
Mr. Robert Sletten, Ecology and Environment, Inc.,
368 Pleasantview Drive, Lancaster, New York 14086

# **Arthur D Little**

Arthur D. Little, Inc.

Apprin Park Campridge Massacriuskin 02140-2390 USA

Telephone 617 864 5770 Fax 617 661 5830 Telex 921436

April 24, 1992

Commander

U.S. Army Toxic & Hazardous Materials Agency Attn: CETHA-TS-A/Mr. Robert Murray Aberdeen Proving Ground, Maryland 21010-5401

Dear Mr. Murray:

EC#1691

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached table.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Amsterdam Berlin Brussels

London
Los Angeles

Magrid Mexico City Milan Munich New York Paris

Rivadh

Svaney

Taipei Tokyo Toronto Washington Wiesbaden

San Francisco

Santa Barbara São Paulo Singapore

Campriage U.K.

Cambridge, U.S. Caracas Houston

Theodore A. Olsson

Manager, Environmental Analysis

Environmental Technology & Analysis Section

/jmm Enclosure



| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report          |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|---------------------------------------|
| IGC | ABB               | BA           | TT08   | Ion Chrom Water | 13-Apr-92           | 16                |                                       |
| IGD | ABB               | BA           | TT08   | Ion Chrom Water | 14-Apr-92           | 21                |                                       |
| IGE | ABB               | BA           | TT08   | Ion Chrom Water | 15-Apr-92           | 17                |                                       |
| IGF | ABB               | BA           | TT08   | Ion Chrom Water | 16-Apr-92           | 21                |                                       |
| IGG | ABB               | BA           | TT08   | Ion Chrom Water | 17-Apr-92           | 26                |                                       |
| VIP | ABB               | BA           | UM33   | Voas GCMS Water | 15-Apr-92           | 7                 | · · · · · · · · · · · · · · · · · · · |
| VIQ | ABB               | BA           | UM33   | Voas GCMS Water | 15-Apr-92           | 14                |                                       |
| VIT | ABB               | BA           | UM33   | Voas GCMS Water | 16-Apr-92           | 11                |                                       |

ABB Contract Number DAAA15-91-D-008

# Weekly Control Chart Summary

# April 24, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|----------------------|------------------------------|
| VIO | E&E               | CE           | UM33   | Voas GCMS Water | 14-Apr-92           | _10                  |                              |
| VIU | E&E               | CE           | UM33   | Voas GCMS Water | 17-Apr-92           | 1                    |                              |
| VIV | E&E               | CE           | UM33   | Voas GCMS Water | 20-Apr-92           | 3                    |                              |

E&E Contract Number DAAA15-90-0012

eekly Control Chart Summary

# April 24, 1992

|      |                 |                      |                                | Report                           |
|------|-----------------|----------------------|--------------------------------|----------------------------------|
| TT08 | Ion Chrom Water | 15-Apr-92            | 4                              |                                  |
|      | TT08            | TT08 Ion Chrom Water | TT08 Ion Chrom Water 15-Apr-92 | TT08 Ion Chrom Water 15-Apr-92 4 |



## DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401

May 14, 1992



Technical Support Division

Mr. Stephen P. Spellenberg Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Spellenberg:

The control charts submitted with your letter dated May 1, 1992, for work done at Picatinny Arsenal, Badger Army Ammunition Plant, U.S. Army Cold Regions Research and Engineering Laboratory, and Cameron Station, under several contracts, have been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method LM16 Lot VIX is acceptable.
- b. Method SB03 Lots DEA, DEB, and DEC are acceptable.
- c. Method UM33 Lots VIR, VIS, VIW, VIZ, VJA, VJB, VJC, VJD, VJE, and VJF are acceptable.
- d. Method UN06 Lots GBO, GBP, GBQ, GBR, and GBS are acceptable.
  - e. Method UW26 Lots EFT, EFU, and EFV are acceptable.
- f. This Agency acknowledges the receipt of lot PCA submitted as method 00.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc.

Questions or comments concerning this review should be addressed to Ms. Jennifer J. Cook, (410) 671-1574/3348.

Sincerely,

Robert D. Murray

Contracting Officer's Representative DAAA15-87-D-0016

James D. Daniel

Contracting Officer's

Representative DAAA15-90-D-0012

James J. McKenna Contracting Officer's Representative DAAA15-91-D-0008

Rosemary Austin

Contracting Officer's

Representative DAAA15-90-D-0010

Enclosure

Copies Furnished (with enclosure):

Mr. Lawrence Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 20850 Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

Ms. Marcia Meredith, Ecology and Environmental, Inc., 368 Pleasantview Drive, Lancaster, New York 14086

# **Arthur D Little**

Arthur D. Little, Inc.

Lengtinge Meiss 10140 2390 164

Telephone 617 664 6 Fax 617 661 5830 Telex 921436

May 1, 1992

Commander

U.S. Army Toxic & Hazardous Materials Agency Attn: CETHA-TS-A/Mr. Robert Murray Aberdeen Proving Ground, Maryland 21010-5401

Dear Mr. Murray:

EC#1713

Berlin Brussels Cambridge, U K Cambridge, U S Caracas Houston

Amsterdam

Caracas
Houston
London
Los Angeles
Madrid

Madrid Mexico City Milan Munich

New York Paris Riyadh San Francisco Santa Barbara

São Paulo Singapore Sydney Taipei Tokyo Toronto Washington

Wiesbaden

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached table.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Theodore A. Olsson

Manager, Environmental Analysis

A. al

Environmental Technology & Analysis Section

/jmm Enclosure

| Lot | Delivery<br>Order | Installation | Method | Analysis                   | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|----------------------------|---------------------|----------------------|------------------------------|
| PCA | ABB               | BA           | 99 18W | Tot Petroleum Hydrocarbons | 24-Apr-92           | 1                    |                              |
| DEA | ABB               | BA_          | SB03   | Mercury Water              | 16-Арг-92           | 30                   |                              |
| DEB | ABB               | BA           | SB03   | Mercury Water              | 21-Apr-92           | 37                   |                              |
| DEC | ABB               | BA           | SB03   | Mercury Water              | 24-Apr-92           | 12                   |                              |
| VIS | ABB               | ВА           | UM33   | Voas GCMS Water            | 22-Apr-92           | 12                   |                              |
| VIW | ABB               | BA           | UM33   | Voas GCMS Water            | 21-Apr-92           | 8                    |                              |
| VIZ | ABB               | BA           | UM33   | Voas GCMS Water            | 23-Apr-92           | 8                    |                              |
| VJA | ABB               | BA_          | UM33   | Voas GCMS Water            | 24-Apr-92           | 14                   |                              |
| VJB | ABB               | BA           | UM33   | Voas GCMS Water            | 24-Apr-92           | 13                   |                              |
| VJC | ABB               | BA           | UM33   | Voas GCMS Water            | 27-Apr-92           | 13                   |                              |
| VJD | ABB               | BA           | UM33   | Voas GCMS Water            | 27-Apr-92           | 10                   |                              |
| VJE | ABB               | BA           | UM33   | Voas GCMS Water            | 28-Apr-92           | 13                   |                              |
| VJF | ABB               | BA           | UM33   | Voas GCMS Water            | 29-Apr-92           | 14                   |                              |
| GBO | ABB               | BA           | UN06   | Nitrosamines GC            | 19-Apr-92           | 10                   |                              |
| GBP | ABB               | BA           | UN06   | Nitrosamines GC            | 20-Apr-92           | 10                   |                              |
| GBQ | ABB               | BA           | UN06   | Nitrosamines GC            | 21-Apr-92           | 10                   |                              |
| GBR | ABB               | BA           | UN06   | Nitrosamines GC            | 22-Apr-92           | _ 9                  |                              |
|     | ABB               | BA           | UN06   | Nitrosamines GC            | 23-Apr-92           | 12                   |                              |
|     | ABB               | BA           | UW26   | Explosives Water           | 21-Apr-92           | 18                   |                              |
| EFU | ABB               | BA           | UW26   | Explosives Water           | 23-Apr-92           | 19                   |                              |
| EFV | ABB               | BA           | UW26   | Explosives Water           | 27-Apr-92           | 14                   |                              |

ABB Contract Number DAAA15-91-D-008

Weekly Control Chart Summary May 1, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis         | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|------------------|---------------------|-------------------|------------------------------|
| EFV | 49                | PI           | UW26   | Explosives Water | 27-Apr-92           | 6                 |                              |



| Lot               | Delivery<br>Order | Installation | Method | Anatysis                   | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-------------------|-------------------|--------------|--------|----------------------------|---------------------|-------------------|------------------------------|
| L <sup>2</sup> CA | E&E               | CE           | 99 18W | Tot Petroleum Hydrocarbons | 24-Apr-92           | 11                |                              |
| VIX               | E&E               | CE           | LM16   | Voas GCMS Soil             | 22-Apr-92           | 4                 |                              |
| ZCA<br>VIX<br>VIR | E&E               | CE           | UM33   | Voas GCMS Water            | 21-Apr-92           | 7                 |                              |
| VIW               | E&E               | CE           | UM33   | Voas GCMS Water            | 21-Apr-92           | 3                 |                              |

E&E Contract Number DAAA15-90-0012

Weekly Control Chart Summary May 1, 1992

| Delivery<br>Order | Installation | Method | Analysis       | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-------------------|--------------|--------|----------------|---------------------|-------------------|------------------------------|
| WCFS              | СМ           | LM16   | Voas GCMS Soil | 22-Apr-92           | 9                 |                              |
|                   | Order        | Order  | Order          | Order               | Order Analysis    | Order Analysis Samples       |

WCFS Contract Number DAAA15-90-D-0010



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5401

June 2, 1992



Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

The control charts submitted with your letter dated May 8, 1992, for work done in support of Cameron Station, Rocky Mountain Arsenal, and Badger Army Ammunition Plant, have been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method TT08 Lot IGN is acceptable. The analyte NO3 in sample IGN005 should be flagged with the code "N" due to poor low spike recovery. Lot IGH is acceptable.
- b. Method SD24 Lots FMM, FMS, FMX, FML, FNB, FMR, FMW, and FMN are acceptable.
  - c. Method TF10 Lots IGJ, IGK, and IGL are acceptable.
- d. Method UM33 Lots VJG, VJH, VJI, VJJ, and VJK are acceptable.
  - e. Method UN06 Lot GBT is acceptable.
  - f. Method UW26 Lots EFW and EFX are acceptable.

All data which are considered acceptable should be transferred to Potomac Research, Inc. Data pertaining to Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Questions or comments concerning this review should be addressed to Ms. Jennifer J. Cook, (410) 671-1574/3348.

Sincerely,

Douglas T. Scarborough

Alternate Contracting

Officer's Representative

DAAA15-87-D-0016

James J. McKenna

Contracting Officer's

Paresentative DAAA15-91-D-0008

Rosemary Austin

Contracting Officer's

Representative DAAA15-90-0010

Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Mr. Lawrence Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 14086 Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112

## Arthur D Little

Arthur D. Little, Inc.

14 agnora 611 Fed 4 Fax 611 661 563. Telex 921436

May 8, 1992

Commander
U.S. Army Toxic & Hazardous Materials Agency
Attn: CETHA-TS-A/Mr. Robert Murray
Aberdeen Proving Ground, Maryland
21010-5401

Dear Mr. Murray:

EC#1733

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached table.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Amsterdam Berlin Brussels

Cambridge, U K

Cambridge, U.S. Caracas Houston

London Los Angeles

Madrid Mexico City Milan inich w York

Riyadh

San Francisco Santa Barbara

São Paulo Singapore

Sydney

Taipei Tokyo Toronto Washington Wiesbaden Theodore A. Olsson

Manager, Environmental Analysis

Environmental Technology & Analysis Section

/jmm

Enclosure

Weekly Control Chart Summary

May 8, 1992

|        | livery Installatio<br>rder | n Method | Analysis        | Date of<br>Analysis | Number of<br>Samples | Weekly<br>Report |
|--------|----------------------------|----------|-----------------|---------------------|----------------------|------------------|
| IGN 50 | RK                         | TT08     | Ion Chrom Water | 29-Apr-92           | 2                    |                  |



May 8, 1992

| Lot        | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|------------|-------------------|--------------|---------|------------------|---------------------|-------------------|------------------------------|
| FMN        | ABB               | BA           | SD24-AG | Graphite Furnace | 30-Apr-92           | 21                |                              |
| FMR        | ABB               | ВА           | SD24-AG | Graphite Furnace | 01-May-92           | 23                |                              |
| FMW        | ABB               | BA           | SD24-AG | Graphite Furnace | 04-May-92           | 5                 |                              |
| FNB        | ABB               | ВА           | SD24-AG | Graphite Furnace | 04-May-92           | 7                 |                              |
| FMM        | ABB               | ВА           |         | Graphite Furnace | 05-May-92           | 21                |                              |
| FMS        | ABB               | BA           | SD24-AS | Graphite Furnace | 06-May-92           | 23                |                              |
| FMX        | ABB               | BA           | SD24-AS | Graphite Furnace | 07-May-92           | 5                 |                              |
| FML        | ABB               | BA           | SD24-SE | Graphite Furnace | 05-May-92           | 21                |                              |
| IGJ        | ABB               | BA           | TF10    | Nitrogen Water   | 28-Apr-92           | 35                |                              |
| IGK_       | ABB               | BA           | TF10    | Nitrogen Water   | 28-Apr-92           | 35                |                              |
| <u>IGL</u> | ABB               | BA           | TF10    | Nitrogen Water   | 28-Apr-92           | 35                |                              |
| IGH        | ABB               | BA           | TT08    | Ion Chrom Water  | 24-Apr-92           | 21                |                              |
| VJG        | ABB               | BA           | UM33    | Voas GCMS Water  | 30-Apr-92           | 14                |                              |
| ۷ЛН        | ABB               | BA           | UM33    | Voas GCMS Water  | 04-May-92           | 14                |                              |
| ۷Л         | ABB               | BA           | UM33    | Voas GCMS Water  | 04-May-92           | 10                |                              |
| VJJ        | ABB               | BA           | UM33    | Voas GCMS Water  | 05-May-92           | 10                |                              |
| PT         | ABB               | BA           | UN06    | Nitrosamines GC  | 28-Apr-92           | 8                 |                              |
| 7          | ABB               | BA           | UW26    | Explosives Water | 01-May-92           | 10                |                              |
| -rX        | ABB               | BA           | UW26    | Explosives Water | 05-May-92           | 19                | <del> </del>                 |

ABB Contract Number DAAA15-91-D-008

Weekly Control Chart Summary May 8, 1992

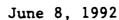
| Lot   | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of<br>Samples | Weekly<br>Report |
|-------|-------------------|--------------|--------|-----------------|---------------------|----------------------|------------------|
| VJK V | WCFS              | СМ           | UM33   | Voas GCMS Water | 05-May-92           | 13                   | . <del>-</del>   |

WCFS Contract Number DAAA15-90-D-0010



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND. MARYLAND 21010-5401





Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission of May 15, 1992, for Badger Army Ammunition Plant, Rocky Mountain Arsenal, and Cameron Station, has been reviewed. The methods, lots, and installations are listed at the enclosure.

The following comments apply to this submission:

- a. Method TT08 Lots IGO, IGP, and IGQ are acceptable.
- b. Method SB03 Lots DED, DEE, and DEF are acceptable.
- c. Method SD24 Lots FMP and FNC are acceptable.
- d. Method "99" for NG (Method UW42) Lots LBT and LBU are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Question or comments concerning this review should be addressed to Mr. Douglas T. Scarborough, (410) 671-1567/3348.

Sincerely,

Douglas T. Scarborough

Alternate Contracting

Officer's Representative

DAAA15-87-D-0016

Contracting Officer's

Representative DAAA15-91-D-0008

Contracting Officer's

Representative DAAA15-90-D-0010

Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City, Colorado 80037-0177 Mr. Rod Pendleton, ABB Environmental, Inc., P.O. Box 7050,

Portland, Maine 04112

Mr. William Mills, Woodward-Clyde Federal Services, One Church Street, Suite 700, Rockville, Maryland 04112

## Arthur D Little

Arthur D. Little, Inc.

Look minade Melicerni kirri Look 40 0095 Look

Telephone 617 864 5771 Fax 617 661 5830 Telex 921436

May 15, 1992

Commander
U.S. Army Toxic & Hazardous Materials Agency
Attn: CETHA-TS-A/Mr. Robert Murray
Aberdeen Proving Ground, Maryland
21010-5401

comments for the lots summarized in the attached table.

If you have any questions, please do not hesitate to contact me.

Dear Mr. Murray:

Sincerely,

EC#1748

Please find enclosed, this week's report containing the control charts and our

Amsterdam Berlin Brussels Cambridge, U K Cambridge, U S Caracas Houston

Houston London Los Angeles

Madrid Mexico City Milan

Pich York

Rivadh San Francisco Santa Barbara São Paulo Singapore Sydney Taipei Tokyo

Toronto Washington Wiesbaden to a se

Theodore A. Olsson Manager, Environmental Analysis

Environmental Technology & Analysis Section

/jmm Enclosure Weekly Control Chart Summary

May 15, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| IGQ | 50                | RK           | TT08   | Ion Chrom Water | 05-May-92           | 6                 |                              |

Weekly OC Report May 15, 1992

| Method Analysis Date of Analysis Number of samples | SR03   Mercury V ater   30-Apr-92   29 | Mercury Water ( | Mercury Water | SD24-P Graphite Furnac 11-May-92 30 | SD24-A Graphite Furnac 07-May-92 | TTOR Ion Chrom Water 06-May-92 | lon Chrom Water | 1  | TT08 Ion Chrom Water 05-May-92 |
|----------------------------------------------------|----------------------------------------|-----------------|---------------|-------------------------------------|----------------------------------|--------------------------------|-----------------|----|--------------------------------|
| SB03 Mercu                                         |                                        | Г               | Т             | SD24-P Graph                        | SD24-A Graph                     | TTOR                           | 十               | Т  |                                |
| Order                                              | ува Ва                                 |                 |               | ABB BA                              |                                  |                                |                 | Va |                                |
| to]                                                | C C C                                  |                 |               | т-                                  | 1                                | +                              |                 | 1  |                                |

| Lot | Delivery | Installatn | Method | Analysis      | Date of Analysis | Number of samples |
|-----|----------|------------|--------|---------------|------------------|-------------------|
|     | Order    |            |        |               | 60 July 1        |                   |
| DEF | WCFS     | СМ         | SB03   | Mercury Water | 05-May-92        | 6                 |

\*

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#### DEPARTMENT OF THE ARMY

## US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND. MARYLAND 21010-5401

June 11, 1992



Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission dated May 22, 1992, for Badger Army Ammunition Plant, Tooele Army Depot, and Cameron Station, has been reviewed. The methods, lots, and installations are listed at the enclosure.

The following comments apply to this submission:

- a. Method SD24 Lots FNJ, FNR, FMT, FMY, FND, FNL, FNQ, FNF, and FNI are acceptable.
  - b. Method TF10 Lots IGM, IGR, and IGS are acceptable.
- c. Method UM33 Lots VJL, VJM, VJN, VJO, and VJP are acceptable.
  - d. Method UW26 Lots EFY and EFZ are acceptable.
  - e. Method UW42 Lot LBV is acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc.

Question or comments concerning this review should be addressed to Mr. Douglas T. Scarborough, (410) 671-1567/3348.

Sincerely,

Charles A. Lechner

Contracting Officer's

Representative DAAA15-90-D-0007

Vames J. McKenna

contracting Officer's

Representative DAAA15-91-D-0008

Rosemary Anstin
Contracting Officer's
Representative

DAAA15-90-D-0010

#### Enclosure

Copies Furnished (with enclosure):

Mr. Rod Pendleton, ABB Environmental, Inc., P.O. Box 7050, V
Portland, Maine 04112

Portland, Maine 04112 Mr. William Mills, Woodward-Clyde Federal Services, One Church Street, Suite 404, Rockville, Maryland 20850

Mr. Harry Williams, SEC/Donohue, 743 Horizon Court, Suite 240, Grand Junction, Colorado 81506

## Arthur D Little

Arthur D. Little, Inc. Acorr Par. Cambridge Massachul 02145-2390 ۵۶۵

Telephone 617 864 577. Fax 617 661 5830 Terex 921436

May 22, 1992

Commander

U.S. Army Toxic & Hazardous Materials Agency Attn: CETHA-TS-A/Mr. Dennis Wynne Aberdeen Proving Ground, Maryland 21010-5401

Dear Mr. Wynne:

EC#1769

Amsterdam Berlin Brusseis Cambridge, U.K. Cambridge, U.S. Caracas

Houston London

Los Angeles Madrid Mexico City

Milan Munich New York

Paris Riyadh San Francisco Santa Barbara São Paulo

Singapore Sydney Taipei Tokyo Toronto

Washington Wiesbaden

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached table.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Theodore A. Olsson

Manager, Environmental Analysis

e a.al

Environmental Technology & Analysis Section

/jmm Enclosure

May 22, 1992

| Lot | Delivery<br>Order | Installation | Method  | ysis                   | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|------------------------|---------------------|-------------------|------------------------------|
| FNJ | ABB               | BA           | SD24-AG | Graphite Furnace       | 14-May-92           | 20                |                              |
| FNR | ABB               | BA           | SD24-AG | Graphite Furnace       | 14-May-92           | 18                |                              |
| FMT | ABB               | BA           | SD24-SE | Graphite Furnace       | 14-May-92           | 23                |                              |
| FMY | ABB               | ВА           | SD24-SE | Graphite Furnace       | 15-May-92           | 5                 |                              |
| FND | ABB               | BA           | SD24-SE | Graphite Furnace       | 15-May-92           | 7                 |                              |
| FNL | ABB               | BA           | SD24-SE | Graphite Furnace       | 18-May-92           | 20                |                              |
| FNQ | ABB               | BA           | SD24-SE | Graphite Furnace       | 18-May-92           | 18                |                              |
| IGM | ABB               | BA           | TF10    | Nitrogen Water         | 07-May-92           | 34                |                              |
| IGR | ABB               | ВА           | TF10    | Nitrogen Water         | 07-May-92           | 33                |                              |
| IGS | ABB               | BA           | TF10    | Nitrogen Water         | 07-May-92           | 32                |                              |
| VJL | ABB               | BA           | UM33    | Voas GCMS Water        | 07-May-92           | 14                |                              |
| VJM | ABB               | BA           | UM33    | Voas GCMS Water        | 08-May-92           | 10                |                              |
| VJN | ABB               | BA           | UM33    | Voas GCMS Water        | 11-May-92           | 8                 |                              |
| EFY | ABB               | ВА           | UW26    | Explosives Water       | 11-May-92           | 18                |                              |
| EFZ | ABB               | BA           | UW26    | Explosives Water       | 15-May-92           | 14                |                              |
| LBV | ABB               | BA           | UW42    | Nitroglycerin in Water | 13-May-92           | 18                |                              |

ABB Contract Number DAAA15-91-D-008

Weekly Control Chart Summary

May 22, 1992

| Lot | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|------------------|---------------------|-------------------|------------------------------|
| FNF | WCFS              | CM           | SD24-AG | Graphite Furnace | 14-May-92           | 6                 |                              |
| FNI | WCFS              | СМ           | SD24-SE | Graphite Furnace | 15-May-92           | 6                 |                              |

WCFS Contract Number DAAA15-90-D-0010

Weekly Control Chart Summary May 22, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| VJO | SEC               | TS           | UM33   | Voas GCMS Water | 19-May-92           | 4                 |                              |
| VJP | SEC               | TS           | UM33   | Voas GCMS Water | 20-May-92           | 2                 |                              |

SEC Donohue (CNES) Contract Number DAA15-90-0007



# DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND. MARYLAND 21010-5401

June 11, 1992



Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission dated May 29, 1992, for Badger Army Ammunition Plant, Tacony Warehouse, Rocky Mountain Arsenal, and Cameron Station, have been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method SD24 Lots FNK, FNP, FMQ, FMV, FNA, FNM, FNO, FNG, and FNH are acceptable.
- b. Method TT08 Lots IGT, IGX, IGW, IGV, IGU, and IGY are acceptable.
- c. Method UM16 Lots SIX, SIY, SIZ, SJA, SJB, SJD, SJE, and SJF are acceptable.
  - d. Method LM16 Lot VJQ is acceptable.
  - e. Method UN06 Lots GBU, GBV, GBW, and GBX are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Question or comments concerning this review should be addressed to Mr. Douglas T. Scarborough, (410) 671-1567/3348.

Sincerely,

Douglas T. Scarborough

Alternate Contracting

Officer's Representative

DAAA15-87-D-0016

Contracting Officer's

Representative DAAA15-90-D-0014

Rosemary Austi Contracting Officer's Representative DAAA15-90-D-0010

Tames J. McKenna

contracting Officer's

Representative DAAA15-91-D-0008

#### Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City, Colorado 80037-0177

Mr. Rod Pendleton, ABB Environmental, Inc., P.O. Box 7050,

Portland, Maine 04112 Mr. William Mills, Woodward-Clyde Federal Services, One Church Street, Suite 404, Rockville, Maryland 20850

Mr. David Spencer, Versar Laboratories, Inc., 2010 Cabot Boulevard West, Langhorne, Pennsylvania 19047

### Artiur D'Little

Arthur D. Little, Inc.

7.44 (j.47) 20 4. 223. US4

Telephore 611 644 -Fax 611 661 6600 Telex 921436

May 29, 1992

Commander
U.S. Army Toxic & Hazardous Materials Agency
Attn: CETHA-TS-A/Mr. Dennis Wynne
Aberdeen Proving Ground, Maryland
21010-5401

Amsterdam Berlin Brusseis

Brussels Cambridge, U K Cambridge, U S Caracas Houston

London Los Angeles Madrid Mexico City

filan unich lew York Paris

Riyadh San Francisco Santa Barbara São Paulo

São Paulo Singapore Sydney Taipei Tokyo

Toronto Washington Wiesbaden Dear Mr. Wynne:

EC#1792

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached table.

gellen by

If you have any questions, please do not hesitate to contact me.

Sincerely,

7Theodore A. Olsson

Manager, Environmental Analysis

Environmental Technology & Analysis Section

/jmm Enclosure

## Weekly Control Chart Summary

May 29, 1992

| Lot                      | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|--------------------------|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| IGW                      | 50                | RK           | TT08   | Ion Chrom Water | 19-May-92           | 8                 |                              |
| IGV                      | 51                | RK           | TT08   | Ion Chrom Water | 14-May-92           | 4                 |                              |
| IGU                      | 52                | RK           | TT08   | Ion Chrom Water | 12-May-92           | 10                |                              |
| IGW<br>IGV<br>IGU<br>IGY | 52                | RK           | TT08   | Ion Chrom Water | 27-May-92           | 6                 |                              |

Weekly Control Chart Summary May 29, 1992

| Lot        | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|------------|-------------------|--------------|---------|------------------|---------------------|-------------------|------------------------------|
| FNG<br>FNH | WCFS              | СМ           | SD24-AS | Graphite Furnace | 20-May-92           | 6                 |                              |
| FNH        | WCFS              | СМ           | SD24-PB | Graphite Furnace | 26-May-92           | 6                 |                              |

WCFS Contract Number DAAA15-90-D-0010

Weekly Control Chart Summary May 29, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis       | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|----------------|---------------------|-------------------|------------------------------|
| VJQ | Versar            | то           | UM16   | Voas GCMS Soil | 26-May-92           | 5                 |                              |

Versar Contract Number DAAA15-90-R-0009

May 29, 1992

| ,   | Dalina            | Installation | Method  | Analysis            | Date of   | Number of | Previous<br>Weekly |
|-----|-------------------|--------------|---------|---------------------|-----------|-----------|--------------------|
| Lot | Delivery<br>Order | installation | Method  | Analysis            | Analysis  | Samples   | Report             |
| FNK | ABB               | ВА           | SD24-AS | Graphite Furnace    | 20-May-92 | 20        |                    |
| FNP | ABB               | BA           | SD24-AS | Graphite Furnace    | 22-May-92 | 18        |                    |
| FMQ | ABB               | ВА           | SD24-PB | Graphite Furnace    | 19-May-92 | 30        |                    |
| FMV | ABB               | BA           | SD24-PB | Graphite Furnace    | 22-May-92 | 17        |                    |
| FNA | ABB               | ВА           | SD24-PB | Graphite Furnace    | 20-May-92 | 12        |                    |
| FNM | ABB               | ВА           | SD24-PB | Graphite Furnace    | 26-May-92 | 39        |                    |
| FNO | ABB               | ВА           | SD24-PB | Graphite Furnace    | 21-May-92 | 37        |                    |
| IGT | ABB               | BA           | TT08    | Ion Chrom Water     | 21-May-92 | 2         |                    |
| IGX | ABB               | BA           | TT08    | Ion Chrom Water     | 26-May-92 | 17        |                    |
| SIX | ABB               | BA           | UM16    | Semivoas GCMS Water | 15-Apr-92 | 13        |                    |
| SIY | ABB               | BA           | UM16    | Semivoas GCMS Water | 28-Apr-92 | 13        |                    |
| SIZ | ABB               | BA           | UM16    | Semivoas GCMS Water | 01-May-92 | 13        |                    |
| SJA | ABB               | BA           | UM16    | Semivoas GCMS Water | 05-May-92 | 14        |                    |
| SJB | ABB               | BA           | UM16    | Semivoas GCMS Water | 13-May-92 | 10        |                    |
| SJC | ABB               | BA           | UM16    | Semivoas GCMS Water | 13-May-92 | 5         |                    |
| SJD | ABB               | BA           | UM16    | Semivoas GCMS Water | 13-May-92 | 10        |                    |
| SJE | ABB               | BA           | UM16    | Semivoas GCMS Water | 19-May-92 | 14        |                    |
| )F  | ABB               | ВА           | UM16    | Semivoas GCMS Water | 20-May-92 | 13        |                    |
| GBU | ABB               | BA           | UN06    | Nitrosamines GC     | 18-May-92 | 16        |                    |
| GBV | ABB               | BA           | UN06    | Nitrosamines GC     | 19-May-92 | 16        |                    |
| GBW | ABB               | BA           | UN06    | Nitrosamines GC     | 20-May-92 | 14        |                    |
| GBX | ABB               | BA           | UN06    | Nitrosamines GC     | 21-May-92 | 8         |                    |

ABB Contract Number DAAA15-91-D-008



## DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND, MARYLAND 21010-5401



June 8, 1992

Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission of May 15, 1992, for Badger Army Ammunition Plant, Rocky Mountain Arsenal, and Cameron Station, has been reviewed. The methods, lots, and installations are listed at the enclosure.

The following comments apply to this submission:

Andrew Commencer

- a. Method TT08 Lots IGO, IGP, and IGQ are acceptable.
- b. Method SB03 Lots DED, DEE, and DEF are acceptable.
- c. Method SD24 Lots FMP and FNC are acceptable.
- d. Method "99" for NG (Method UW42) Lots LBT and LBU are acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Question or comments concerning this review should be addressed to Mr. Douglas T. Scarborough, (410) 671-1567/3348.

Sincerely,

Douglas T. Scarborough

Alternate Contracting

Officer's Representative

DAAA15-87-D-0016

Contracting Officer's

Representative DAAA15-91-D-0008

Rosemary/Austin

Contracting Officer's

Representative DAAA15-90-D-0010

Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City, Colorado 80037-0177 Mr. Rod Pendleton, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112 Mr. William Mills, Woodward-Clyde Federal Services, One Church

Street, Suite 700, Rockville, Maryland 04112

## **Arthur D Little**

Arthur D. Little, Inc

Acort Park Cambridge Massach Jres 02140-2390 USA

Telephone 617 864 51 Fax 617 661 5830 Telex 921436

May 15, 1992

Commander
U.S. Army Toxic & Hazardous Materials Agency
Attn: CETHA-TS-A/Mr. Robert Murray

Aberdeen Proving Ground, Maryland 21010-5401

Dear Mr. Murray:

EC#1748

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached table.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Theodore A. Olsson

Manager, Environmental Analysis

Environmental Technology & Analysis Section

/jmm Enclosure

Tokyo Toronto

San Francisco Santa Barbara

São Paulo Singapore

Sydney

Taipei

Toronto Washington Wiesbagen

Amsterdam Berlin Brussels

Campriage, U K

Cambridge, U.S Caracas Houston

London Los Angeles

Madrid Mexico City Milan Munich New York Paris

Riyadh

Weekly Control Chart Summary

May 15, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of<br>Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|----------------------|------------------------------|
| IGQ | 50                | RK_          | TT08   | Ion Chrom Water | 05-May-92           | 6                    |                              |

M. J. T.

<u></u>

**କ୍ଷୟ** ନ 30-Apr-92 05-May-92 05-May-92 24-Apr-92 05-May-92 05-May-92 07-May-92 06-May-92 07-May-92 11-May-92 Ion Chrom Water Ion Chrom Water Ion Chrom Water Graphite Furnac Graphite Furnac Mercury Water Mercury Water **Mercury Water** 99 46W Nitroglycerin i 99 46W Nitroglycerin i Method Analysis \$803 \$803 \$803 \$D24-P SD24-A TT08 88 Installatn BBBB BA BA BA BA Deliver Order ABB ABB ABB ABB ABB ABB ABB ABB ABB ABB FMP 3 00 E DEF <u>S</u> GP

|     | Delivery | Installatn                 | Method         | Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date of Analysis | Number of samples |
|-----|----------|----------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|
| -   | Order    | salatifi (selit e lugi e e | and the second | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s | 05.145 - 00      |                   |
| DEF | WCFS     | ICM                        | SB03           | Mercury Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 05-May-92        | 1                 |

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| FACSIMILE TRANSMITTAL HEADER SHEET |                                                                                                               |  |  |  |  |
|------------------------------------|---------------------------------------------------------------------------------------------------------------|--|--|--|--|
|                                    | DATE: June 1992  TIME:  NUMBER OF PAGES:  FROM: James J. Mc Kenna                                             |  |  |  |  |
|                                    | U.S. ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY CETHA-IR-A SLDG. E4480 ABERDEEN PROVING GROUND, MD. 21010-6401 |  |  |  |  |
| TELEPHONE:                         | COMMERCIAL: (301) 671- 1506<br>AUTOVON: 584- 1506                                                             |  |  |  |  |
| FACSIMILE:                         | COMMERCIAL: (301) 671-1548<br>AUTOVON: 584-1548                                                               |  |  |  |  |
| <u>TO:</u>                         | Jeff Pickett                                                                                                  |  |  |  |  |
|                                    | ABB , Budger ABP Project                                                                                      |  |  |  |  |
| TELEPHONE:                         | COMMERCIAL: 207 775-5401                                                                                      |  |  |  |  |
| facsimile:                         | COMMERCIAL:                                                                                                   |  |  |  |  |

COMMENTS:

### DEPARTMENT OF THE ARMY

#### BADGER ARMY AMMUNITION PLANT BARABOO, WISCONSIN 53913

SMCBA-CR (200-1a)

9 June 1992

MEMORANDUM FOR Commander, US Army Toxic and Hazardous Materials Agency,
Installation Restoration Division, ATTN: CETHA-IRA,
Aberdaen Proving Ground, MD 21010-5401

SUBJECT: Draft Aquifer Pump Test Report

- 1. Attached are review comments from Olin Corporation, comparing subject report with earlier results by Exploration Technology, Inc. and finding them comparable.
- 2. Please contact me at DSN 280-9200 if there are any questions.

FOR THE COMMANDER:

Att

DAVID C. FORDHAM

Commander's Representative

faxid to 188 6/15/91

#### 4 June 1992

Contracting Officer's Representative Badger Army Ammunition Plant Baraboo, WI 53913

Subject: Letter From ABB May 18, 1992

Contract No. DAAA15-91-0008, Task Order 1 Remedial Investigation/Feasibility Study

Badger Army Ammunition Plant (BAAP)

Reference: Contracting Officer's Representative Letter Dated 20

May 1992, subject as above

Dear Sir:

An independent verification of the Draft Aquifer Pump Test Report as prepared by ABB Environmental has been completed by Olin Environmental Engineering.

The verification has been performed using data from the pump test performed on January 9, 1990 by Exploration Technology, Inc. (ETI). The following is a comparison of the key results:

Transmissivity gpd/ft

<u>ABB</u> 236,000 273,000 255,000

292,000 228,000

Avg. Specific Yield (Dimensionless)
ABB ETI

11 0.09 0.07 0

The transmissivity that ABB recommends for use in their February 24, 1992 letter to Mr. James McKenna is 235,000 gpd/ft. The most supportable value for a water table aquifer for transmissivity based on the pump test that was subcontracted to ETI is 292,000 gpd/ft. Transmissivity is defined as the rate at which water of a prevailing density and viscosity is transmitted through a unit width of an aquifer under a unit hydraulic gradient. It is a function of the liquid, the porous media and the saturated thickness of the porous media.

The specific yield that ABB recommends in the earlier referenced February 24, 1992 letter is 0.11, while the most supportable value obtained using ETI's results is 0.14. Specific Yield is a dimensionless parameter that is defined as the ratio of the volume of water a soil will yield by gravity drainage to the volume of the soil.

Contracting Officer's Representative 4 June 1992 Page Two

Using ABB's transmissivity value of 235,000 gpd/ft, the resulting permeability is 180 ft/day, while the permeability as calculated with the results obtained through ETI is 156 feet per day. The permeability is defined as a coefficient of proportionality describing the rate at which water can move through a permeable medium.

In summary, the two pump tests yielded comparable results. The test completed by ABB was performed using a more rigorous protocol. The results were verified by using the same three methods to calculate the key aquifer parameters; Boulton Water Table, Jacob Straight Line and the Recovery Test. The results agree very well for all parameters.

Very truly yours,

ORIGINAL SIGNED BY J.R. MATTEL

J. R. MATTEI Plant Manager

LMU: JPH: dkr



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND. MARYLAND 21010-5401

June 22, 1992



Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission dated June 5, 1992, for Badger Army Ammunition Plant, Tacony Warehouse, Rocky Mountain and Picatinny Arsenals, has been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method UW26 Lots ECB and EGC are acceptable.
- b. Method TT08 Lot IGZ is acceptable.
- c. Method UW42 Lot LBX is acceptable.
- d. Method JB03 Lot DEJ is acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Question or comments concerning this review should be addressed to Mr. Douglas T. Scarborough, (410) 671-1567/3348.

Sincerely,

Douglas T. Scarborough

Alternate Contracting

Officer's Representative

DAAA15-87-D-0016

James J **McKenna** 

Contracting Officer's

Representative DAAA15 :1-D-0008

Joseph A. Ricci

Contracting Officer's

Representative DAAA15-90-D-0014

Enclosure

Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180 Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City, Colorado 80037-0177 Mr. Rod Pendleton, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112 Mr. David Spencer, Versar Laboratories, Inc., 2010 Cabot

Boulevard West, Langhorne, Pennsylvania 19047

Weekly Control Chart Summary

June 5, 1992

| Lot | Delivery<br>Order | Installation | Method |         | Analysis | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------|----------|---------------------|-------------------|------------------------------|
| DEJ | Versar 1          | ТО           | JB03   | Mercury | Soil     | 29-May-92           | 4                 |                              |

Versar Contract Number DAAA15-90-D-0014

Weekly Control Chart Summary

June 5, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|------------------|-------------------|------------------------------|
| LBX | ABB               | BA           | 99 46W | NG, PETN, 2A46D | 30-May-92        | 1                 |                              |
| EGC | ABB               | BA           | UW26   | Explosives Wate | 29-May-92        | 1                 |                              |
|     |                   |              |        |                 |                  |                   |                              |

ABB Contract Number DAAA15-91-D-008

Weekly Control Chart Summary June 5, 1992

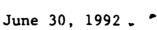
| Lot        | Delivery<br>Order | Installation | Method   | Analysis        | Date of Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|------------|-------------------|--------------|----------|-----------------|------------------|-------------------|------------------------------|
| EGB        | 49                | PI           | UW26     | Explosives Wate | 28-May-92        | 16                |                              |
| EGB<br>IGZ | 50                | RK           | TT08     | Ion Chrom Water | 29-May-92        | 2                 |                              |
|            | <u> </u>          |              | <u> </u> |                 |                  | j                 |                              |



#### DEPARTMENT OF THE ARMY

# US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401





Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Reference is made to your control chart submission dated June 19, 1992, for Badger Army Ammunition Plant, Tacony Warehouse, Tooele Army Depot, and Picatinny Arsenal. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method UM16 Lots SJG and SJI are acceptable.
- b. Method KT04 Lots IHD, IHF, and IHG are acceptable.
- c. Method LM16 Lots VJS and VJR are acceptable.
- d. Method KY07 Lots ZTX, ZTY, ZUA, and ZUB are acceptable.
- e. Method TY12 Lot ZTZ is acceptable.
- f. Method JD13 Lot FNT is acceptable.
- q. Method UW26 Lot EGD is acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc.

Question or comments concerning this review should be addressed to Mr. Douglas T. Scarborough, (410) 671-1567/3348.

Sincerely,

Douglas T. Scarborough Contracting Officer's

Representative DAAA15-87-D-0016

James J. Mcl

Contracting Officer's

Representative DAAA15-91-D-0008

Contracting Officer's

→ Representative DAAA15-90-D-0014

Charles A. Lechner Contracting Officer's

Representative DAAA15-90-D-0007

#### Enclosure

Copies Furnished (with enclosure):

Mr. Rod Pendleton, ABB Environmental, Inc., P.O. Box 7050, Portland. Maine 04112

Portland, Maine 04112 Mr. David Spencer, Versar, Inc., 2010 Cabot Boulevard West, Langhorne, Pennsylvania 19047

Mr. Harry Williams, SEC/Donohue, 743 Horizon Court, Suite 240, Grand Junction, Colorado 81506

## **Arthur D Little**

Arthur D. Little, inc

14 V 14 V 34

14 955554 61 1 661 651 14 961 7 661 651 14 94 921436

June 19, 1992

Commander
U.S. Army Toxic & Hazardous Materials Agency
Attn: CETHA-TS-A/Mr. Douglas Scarborough
Aberdeen Proving Ground, Maryland
21010-5401

Dear Mr. Scarborough:

EC#1867

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached tables.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Theodore A. Olsson

Manager, Environmental Analysis

DA.al

Environmental Technology & Analysis Section

/jmm Enclosure

Riyadh San Francisco Santa Barbara São Paulo Singapore Sydney Taipei Tokyo Toronto Washington Wiesbaden

Amsterdam Berlin

Campridge, U.S. Caracas Houston

Brussels Cambridge, U.K.

London Los Angeles

Madrid Mexico City Milan Weekly Control Chart Summary June 19, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis             | Date of Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|----------------------|------------------|-------------------|------------------------------|
| SJG | ABB               | BA           | UM16   | Semivoas GCMS Water_ | 02-Jun-92        | 13                |                              |
| SJI | ABB               | BA           | UM16   | Semivoas GCMS Water  | 28-May-92        | 11                |                              |
|     |                   |              |        |                      |                  |                   |                              |

ABB Contract Number DAAA15-91-D-008

Weekly Control Chart Summary June 19, 1992

| Loi        | Delivery<br>Order | Instarlation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|------------|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| IHD        | SE01              | TN           | KT04   | Ion Chrom Soil  | 10-Jun-92           | 4                 |                              |
| IHD<br>IHF | SE01              | TN           | KT04   | Ion Chrom Soil  | 12-Jun-92           | 5                 |                              |
| IHG        | SE01              | TN           | KT04   | Ion Chrom Soil  | 12-Jun-92           | 21                |                              |
| VJS        | SE01              | TN           | LM16   | Voas GCMS Soil  | 09-Jun-92           | 3                 |                              |
| ZTY        | SE01              | TN           | KY07   | Cyanide in Soil | 09-Jun-92           | 2                 |                              |
| ZUA        | SE01              | TN           | KY07   | Cyanide in Soil | 12-Jun-92           | 14                |                              |
| ZUB        | SE01              | TN           |        | Cyanide in Soil | 16-Jun-92           | 12                |                              |

SEC (SE01) Contract Number DAAA15-90-D-0007

Weekly Control Chart Summary June 19, 1992

| Lot               | Delivery<br>Order | Installation | Method  | Analysis                   | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-------------------|-------------------|--------------|---------|----------------------------|---------------------|-------------------|------------------------------|
| FNT<br>PCF<br>VJR | V01               | то           | JD13-AS | Graphite Furn Soil         | 05-Jun-92           | 4                 |                              |
| PCF               | V01               | то           | 418.1   | Tot Petroleum Hydrocarbons | 09-Jun-92           | 1]                |                              |
| VJR               | V01               | ТО           | LM16    | Voas GCMS Soil             | 03-Jun-92           | 3                 |                              |
| ZTX               | V01               | то           | KY07    | Cyanide in Soil            | 28-May-92           | 4                 |                              |
| ZTY               | V01               | ТО           | KY07    | Cyanide in Soil            | 09-Jun-92           | 3                 |                              |
| ZTZ               | V01               | ТО           | TY12    | Cyanide Water              | 10-Jun-92           | 1                 |                              |

Versar (V01) Contract Number DAAA15-90-D-0014



#### DEPARTMENT OF THE ARMIT

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND MARYLAND 21010-5401

August 14, 1992



Base Closure Division

Mr. Theodore Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your quality control chart submission dated July 17, 1992, for Badger Army Ammunition Plant, Tooele Army Depot, and Tacony Warehouse, has been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method LH13 Lot CDV is acceptable. This method reflects analyses completed on June 24, 1992.
- b. Method JD13 Lots FNU, FOA, and FOB are acceptable. This method reflects analyses completed on June 8 and 23, 1992, and July 1, 1992.
- c. Method SS16 Lots MFA, MFD, and MFE are acceptable. This submission reflects work completed on June 10, 11, and 29, 1992.
- d. Method TY12 Lots ZUD and ZUE are acceptable.

  Analyses for this method were completed on June 23 and 24, 1992.
- e. Method KY07 Lot ZUF is acceptable. This method reflects analyses completed on July 1, 1992.
- f. Method LM15 Lots SJM and SJQ are acceptable. This submission reflects work completed on June 9, 1992.

The laboratory is reminded that section 16.0 of the U.S. Army Toxic and Hazardous Materials Agency Quality Assurance Program, dated January 1990, specifically states that the quality control (QC) report shall be submitted to this Agency no later than 5 working days after analyses for a week are completed. Your submission is not in compliance with this requirement as reflected in the analyses dates noted above. Therefore, a corrective action plan detailing how the laboratory will submit future weekly reports in compliance with this Agency's

requirements shall be submitted for review within 10 days of receipt of this letter. For additional guidance on this matter, Mr. Douglas T. Scarborough or Ms. Darlene F. Bader, this Agency, should be contacted at (410) 671-1567/1573/3348.

You are also reminded that electronic versions of the control charts are a requirement with each submission of QC charts. Your laboratory has not submitted an electronic version since December 23, 1991. Beginning with the next submission, you shall ensure that electronic versions are included. Any instruction from this Agency concerning the nonsubmittal of the electronic version should be included in your cover letter.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc.

Questions or comments concerning this review should be addressed to Ms. Bader, (410) 671-1573/3348.

Sincerely,

James J. McKenna Contracting Officer's

Representative DAAA15-91-D-0008

Charles A. Lechner Contracting Officer's Representative DAAA15-90-D-0007

Joseph A. Ricci Contracting Officer's

Representative

DAAA15-90-D-0014

#### Enclosure

Copies Furnished (with enclosure):

Ms. Pam Hillis, Versar Laboratories, Inc., 6850 Versar Center, Springfield, Virginia 22151

Mr. Robert Pendleton, ABB Environmental, Inc., P.O. Box 7050 Portland, Maine 04112

Mr. Harry Williams, SEC/Donohue Inc., 743 Horizon Court, Suite 240, Grand Junction, Colorado 81506

### **Arthur D Little**

Arthur D Little, Inc.

12 47 . 690 1247 . 690

Teleptore 011 864 5 fax 611 663 5530 Telex 921436

July 17, 1992

Commander

U.S. Army Toxic & Hazardous Materials Agency Attn: CETHA-TS-A/Mr. Douglas Scarborough Aberdeen Proving Ground, Maryland 21010-5401

Amsterdam Beriin Brusseis Cambridge, U K Cambridge, U S

Caracas
Houston
London
Los Angeles

Madrid Mexico City

Paris Riyadh San Francisco Santa Barbara São Paulo Singapore Sydney, Taipei

Tokyo Toronto Washington Wiesbaden Dear Mr. Scarborough:

EC#1947

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached tables.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Theodore A. Olsson

Manager, Environmental Analysis

Environmental Technology & Analysis Section

/jmm

Enclosure

July 17, 1992

| Lot | Del_order | Installatn | Method  | Analysis        | Date of<br>Analysis | Number of samples | Previously<br>Reported |
|-----|-----------|------------|---------|-----------------|---------------------|-------------------|------------------------|
| CDV | V01       | то         | LH13    | Pest/PCB Soil E | 24-Jun-92           | 2                 |                        |
| FNU | V01       | то         | JD13-SE | GFAA Soil-SE    | 08-Jun-92           | 4                 |                        |
| FOA | V01       | то         | JD13-AS | GFAA Soil-AS    | 01-Jul-92           | 3                 |                        |
| FOB | V01       | то         | JD13-AG | GFAA Soil-AG    | 23-Jun-92           | 3                 |                        |
| SJQ | V01       | то         | LM15    | Semivoas GCMS S | 09-Jun-92           | 2                 |                        |
| ZUD | V01       | то         | TY12    | Cyanide Water   | 23-Jun-91           | 8                 |                        |
| ZUE | V01       | то         | TY12    | Cyanide Water   | 24-Jun-92           | 1                 |                        |

Versar (V01) Contract Number DAAA15-90-D-0014



July 17, 1992

| Lot | Del_order | Installatn | Method | Analysis      | Date of<br>Analysis | Number of samples | Previously<br>Reported |
|-----|-----------|------------|--------|---------------|---------------------|-------------------|------------------------|
| MFA | ABB       | ВА         | SS16-C | ICP Water-ABB | 10-Jun-92           | 28                |                        |
| MFD | ABB       | ВА         | SS16-C | ICP Water-ABB | 11-Jun-92           | 28                |                        |
| MFE | ABB       | BA         | SS16-D | ICP Water-ABB | 29-Jun-92           | 5                 |                        |
| MFE | ABB       | ВА         | SS16-E | ICP Water-ABB | 29-Jun-92           | 10                |                        |

ABB Contract Number DAAA15-91-D-008



#### DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5401



ATTENTION O

August 31, 1992

Installation Restoration Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your letter dated July 22, 1991, regarding your control chart submission of November 8, 1991, for Sudbury Annex, Tooele Army Depot (North), and Cameron Station, has been reviewed. Methods, lots, and installations are included at the enclosure.

The following comment applies to this submission:

- Method UM17 - Lots VGM and VGQ are acceptable.

Questions or comments should be addressed to Ms. Brenda F. Little, (410) 671-1575/3348.

Sincerely,

James J. McKenna

Contracting Officer's

Representative

DAAA15-91-D-0008

Charles A. Lechner
Contracting Officer's
Representative

DAAA15-90-D-0007

Rosemary A. Queen

Contracting Officer's

Representative

DAAA-90-D-0010

Enclosure

#### Copies Furnished (with enclosure):

Ms. Deborah Smith, ABB Environmental, Inc., P.O. Box 7050,

Portland, Maine 04112 Mr. Harry Williams, SEC/Donahue, 743 Horizon Court, Suite 240, Grand Junction, Colorado 81506

Mr. Lawrence Olinger, Woodward-Clyde Federal Services, Inc., One Church Street, Suite 404, Rockville, Maryland 20850

Ms. Marcia Meredith, Ecology and Environmental, Inc., 368 Pleasantview Drive, Lancaster, New York 14086

# **Artiur D Little**

Arthur D. Little, Inc. Acorr Fare Campridge Massachusers

02140-2390 USA

Telephone 617 864 5770 Fax 617 661 5830 Telex 921436

July 22, 1992

Commander
U.S. Army Toxic & Hazardous Materials Agency
Attn: CETHA-TS-A/Ms. Brenda Little
Aberdeen Proving Ground, Maryland
21010-5401

Dear Ms. Little:

EC 1956

Amsterdam Berlin Brussels Cambridge, U.K. Cambridge, U.S. Caracas Houston London Los Angeles Madrid Mexico City Milan Munich New York Paris Riyadh

San Francisco

Santa Barbara São Paulo Singapore Sydney Taipei Tokyo Toronto Washington Wiesbaden I am resubmitting the attached letter, it was submitted in a large batch of response letters, and was apparently overlooked. Lots VGM and VGQ were omitted from the letter dated December 10, 1991. If you have any questions, please do not hesitate to contact me.

Zpellen ly

Sincerely,

Stephen P. Spellenberg

Program Manager

| Lot               | Delivery<br>Order | Installation | Method  | Analysis        | Date of               | Number of       | Previous<br>Weekly |
|-------------------|-------------------|--------------|---------|-----------------|-----------------------|-----------------|--------------------|
| i <del>51</del> / | WCFS              | CM           | JB03    | I Manager Cail  | Analysis<br>23-Oct-91 | Samples 22      | Report             |
| JK A              | 45                | LS           | SB03    | Mercury Soil    | 23-Oct-91             | $\frac{22}{10}$ |                    |
| DDK               |                   | SD           | SB03    | Mercury Water   | 23-Oct-91             | 13              |                    |
| OK J              |                   | NK           |         | Mercury Water   |                       |                 |                    |
|                   |                   |              | SB03    | Mercury Water   | 23-Oct-91             | 2               |                    |
| DDK ✓             |                   | CM           | SB03    | Mercury Water   | 23-Oct-91             | 2               |                    |
| EEU V             | 45                | LS           | UW26    | Explosives Wate | 31-Oct-91             | 9               |                    |
| 3U /              | 49                | PI           | UW26    | Explosives Wate | 31-Oct-91             | 5               |                    |
|                   | 45                | LS           | SD24-AS | Graphite Furnac | 23-Oct-91             | 1               | 01-Nov-91          |
| 1                 | 48                | NK           | SD24-AS | Graphite Furnac | 23-Oct-91             | 2 (             | 01-Nov-91          |
| 7                 | 45                | LS           | SD24-SE | Graphite Furnac | 23-Oct-91             | 1               | 01-Nov-91          |
| \T\T              | 48                | NK           | SD24-SE | Graphite Furnac | 23-Oct-91             | 2               | 01-Nov-91          |
| FIU /             | 45                | LS           | SD24-PB | Graphite Furnac | 19-Oct-91             | 1               | 01-Nov-91          |
| TU V              | 48                | NK           | SD24-PB | Graphite Furnac | 19-Oct-91             | 2 (             | 01-Nov-91          |
| WZ /              | CNES              | TS           | TT08    | Ion Chrom Water | 18-Oct-91             | l               |                    |
| mZ 7              | WCFS              | CM           | TT08    | Ion Chrom Water | 18-Oct-91             | 1               |                    |
| EA /              | WCFS              | CM           | T108    | Ion Chrom Water | 16-Oct-91             | 6               |                    |
|                   | WCFS              | CM           | TT08    | Ion Chrom Water | 17-Oct-91             | 1               |                    |
| TE:C              | WCFS              | CM           | TT08    | Ion Chrom Water | 22-Oct-91             | 6               |                    |
|                   | WCFS              | CM           | JS15    | Metals By ICP S | 23-Oct-91             | 23              |                    |
| VOLV              | ABB               | BA           | UM17    | Voas GCMS Water | 24-Sep-91             | 1               |                    |
| VGKJ              | WCFS              | CM           | LM16    | Voas GCMS Soil  | 07-Oct-91             | 13              |                    |
| VGL J             | 48                | NK           | UM17    | Voas GCMS Water | 07-Oct-91             | 12              |                    |
| VGM               | 47                | SD           | UM17    | Voas GCMS Water | 09-Oct-91             | 11              |                    |
| VGM               | CNES              | TS           | UM17    | Voas GCMS Water | 09-Oct-91             | 1               |                    |
| VGQ               | WCFS              | CM           | UM17    | Voas GCMS Water | 16-Oct-91             | 3               |                    |

ABB Contract Number DAAA15-91-D-008
CNES Contract Number DAAA15-90-D-0007
WCFS Contract Number DAAA15-90-D-0010

\* Control Charts fc. lots FIS, FIT, and FIU were submitted in the weekly report dated 11/01/91 for installation DV, delivery Order E&E E&E Contract Number DAAA15-90-0012

New You 'v decekares isk'.



#### DEPARTMENT OF THE ARMY

# US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY

ABERDEEN PROVING GROUND, MARYLAND 21010-5401

September 3, 1992

Base Closure Division



Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission dated August 7, 1992, for Tooele Army Depot, Cameron Station, Tacony Warehouse, and Badger Army Ammunition Plant, has been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method JB03 Lots DEQ and DER are acceptable.
- b. Method JD13 Lots FOT, FNX, and FNY are acceptable.
- c. Method KY07 Lots ZUM, ZUN, ZUO, and ZUQ are acceptable.
- d. Method LW26 Lots EGF, EGG, EGH, EGI, EGJ, EGK, EGP, and EGW are acceptable. However, all data for test name RDX in lot EGK must be flagged with an "N."
  - e. Method SB03 Lot DES is acceptable.
  - f. Method SS16 Lot MFB is acceptable.
  - g. Method TY12 Lot ZUP is acceptable.
  - h. Method UM16 Lots SJH and SJJ are acceptable.
  - Method UM33 Lot VKN is acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc.

Question or comments concerning this review should be addressed to Mr. Douglas T. Scarborough, (410) 671-1567/3348.

Sincerely,

Charles A. Lechner
Contracting Officer's
Representative
DAAA15-90-D-0007

Mary Ellen Heppner Contracting Officer's Representative DAAA15-91-D-0010 Rosemany A. Queen
Contracting Officer's
Representative
DAAA15-90-D-0010

Ontracting Officer's Representative

DAAA90-D-0014

Enclosure

Copies Furnished (with enclosure):

Mr. Anthony Enweze, Ebasco Services, Inc., 2111 Wilson Boulevard, Suite 1000, Arlington, Virginia 22201-3058
Mr. Harry Williams, SEC/Donohue, 743 Horizon Court, Suite 240, Grand Junction, Colorado 81506
Mr. Rod Pendleton, ABB Environmental, Inc., P.O. Box 7050, Portland, Maine 04112
Mr. David Spencer, Versar Laboratories, Inc., 2010 Cabot Boulevard West, Langhorne, Pennsylvania 19047

James J.√McKenna

Contracting Officer's Representative DAAA15-91-D-0007

## **Arthur D Little**

Arthur D. Little, Inc.
Hoorn Park
Campridge Massachusett
02140-2390
USA

Telephone 617 864 5770 Fax 617 661 5830 Telex 921436

August 7, 1992

Commander
U.S. Army Toxic & Hazardous Materials Agency
Attn: CETHA-TS-A/Mr. Douglas Scarborough
Aberdeen Proving Ground, Maryland
21010-5401

Amsterdam Bertin

Berlin Brussels Campridge U K Campridge, U S Caracas

Houston
London
Los Angeles
Madrid

Mexico City Milan Munich New York

Paris Riyadh San Francisco Santa Barbara São Paulo

Singapore
Sydney
Taipei
Tokyo
Toronto
Washington
Wiespagen

Dear Mr. Scarborough:

EC#2003

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached tables. In addition, I have enclosed a diskette with the control chart data for these methods.

If you have any questions, please do not hesitate to contact me.

Sincerely,

San Francisco Theodore A. Olsson

Manager, Environmental Analysis

Environmental Technology & Analysis Section

/jmm Enclosure



# August 7, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis            | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------------|---------------------|-------------------|------------------------------|
| SJH | WCFS              | СМ           | UM16   | Semivoas GCMS Water | 29-May-92           | 6                 |                              |

WCFS Contract Number DAAA15-90-D-0010

Weekly Control Chart Summary

August 7, 1992

| Lot        | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|------------|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| DER        | EB01              | TS           | JB03   | Mercury Soil    | 08-Jul-92           | 14                |                              |
| FOT        | EB01              | TS           |        | GFAA Soil-PB    | 22-Jul-92           | 14                |                              |
| FOT<br>EGP | EB01              | TS           | LW26   | Explosives Soil | 20-Jul-92           | 7                 |                              |
| EGW        | EB01              | TS           | LW26   | Explosives Soil | 24-Jul-92           | 1                 |                              |
| DES        | EB01              | TS           | SB03   | Mercury Water   | 15-Jul-92           | 3                 |                              |

Ebasco (EB01) Contract Number DAAA15-91-0010



August 7, 1992

| Lot        | Delivery<br>Order | Installation | Method   | Analysis     | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|------------|-------------------|--------------|----------|--------------|---------------------|-------------------|------------------------------|
| FNX<br>FNY | V01               | то           | JD13-PB  | GFAA Soil-PB | 18-Jun-92           | 4                 |                              |
| FNY        | V01               | TO           |          | GFAA Soil-SE | 07-Jul-92           | 3                 |                              |
|            | <u> </u>          | <u> </u>     | <u> </u> |              |                     |                   |                              |

Versar (V01) Contract Number DAAA15-90-D-0014



Weekly Control Chart Summary August 7, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis            | Date of Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------------|------------------|-------------------|------------------------------|
| MFB | ABB               | ВА           | SS16   | ICP Water           | 07-Jul-92        | 33                |                              |
| SJJ | ABB               | BA           | UM16   | Semivoas GCMS Water | 01-Jun-92        | 10                |                              |
|     | <u> </u>          |              |        |                     |                  |                   |                              |

ABB Contract Number DAAA15-91-D-008

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| DEO | SE01              | TN           | JB03   | Mercury Soil    | 08-Jul-92           | 26                |                              |
| ZUM | SE01              | TN           | KY07   | Cyanide Soil    | 16-Jul-92           | 13                |                              |
| ZUN | SE01              | TN           | KY07   | Cyanide Soil    | 23-Jul-92           | 13                |                              |
| ZUO | SE01              | TN           | KY07   | Cyanide Soil    | 23-Jul-92           | 12                |                              |
| ZUQ | SE01              | TN           | KY07   | Cyanide Soil    | 24-Jul-92           | 6                 |                              |
| EGF | SE01              | TN           | LW26   | Explosives Soil | 17-Jul-92           | 9                 |                              |
| EGG | SE01              | TN           | LW26   | Explosives Soil | 19-Jul-92           | 9                 |                              |
| EGH | SE01              | TN           | LW26   | Explosives Soil | 20-Jul-92           | 10                | ·                            |
| EGI | SE01              | TN           | LW26   | Explosives Soil | 24-Jul-92           | 10                |                              |
| EGJ | SE01              | TN           | LW26   | Explosives Soil | 22-Jul-92           | 14                |                              |
| EGK | SE01              | TN           | LW26   | Explosives Soil | 25-Jul-92           | 10                |                              |
| EGP | SE01              | TN           | LW26   | Explosives Soil | 20-Jul-92           | 2                 |                              |
| ZUP | SE01              | TN           | TY12   | Cyanide Water   | 24-Jul-92           | 2                 |                              |
| VKN | SE01              | TN           | UM33   | Voas Water      | 28-Jul-92           |                   | -                            |



# ADL Control Chart summary August 7, 1992

| Method | Analysis            | Number of Lots | Number of Delivery Orders |
|--------|---------------------|----------------|---------------------------|
| JB03   | Mercury Soil        | 2              | 2                         |
| ЛD13   | GFAA Soil-PB        | 2              | 2                         |
| JD13   | GFAA Soil-SE        | 1              | 1                         |
| KY07   | Cyanide Soil        | 4              | 1                         |
| LW26   | Explosives Soil     | 8              | 2                         |
| SB03   | Mercury Water       | 1              | 1                         |
| SS16   | ICP Water           | 1              | 1                         |
| SS16   | ICP Water           | 1              | 1                         |
| TY12   | Cyanide Water       | 1              | 1                         |
| UM16   | Semivoas GCMS Water | 2              | 2                         |
| UM33   | Voas Water          | 1              | 1                         |



#### DEPARTMENT OF THE ARMY

# US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND. MARYLAND 21010-5401 September 15, 1992



Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massuchusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission dated July 24, 1992, for Badger Army Ammunition Plant, Tacony Warehouse, Tooele Army Depot, Rocky Mountain and Picatinny Arsenals, has been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method JD13 Lot FNZ is acceptable.
- b. Method KT04 Lots IHO, IHP, IHQ, IHR, IHS, and IHV are acceptable.
  - c. Method KY07 Lots ZUG, ZUJ, and ZUK are acceptable.
  - d. Method LH13 Lots CDW and CEB are acceptable.
  - e. Method LM16 Lots VKG, VKI, VKK, and VKL are acceptable.
  - f. Method SD24 Lot FOV is acceptable.
  - g. Method SS16 Lots MFF and MEZ are acceptable.
  - h. Method TT08 Lots IHU, IHW, and IHT are acceptable.
  - i. Method UH16 Lots CEC, CDZ, and CEA are acceptable.
  - j. Method UM33 Lot VKJ is acceptable.
- k. Method UW26 Lots EGL and EGM are acceptable. However, due to low recoveries, all data for test name HMX should be flagged with a "N."

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Questions or comments concerning this review should be addressed to Mr. Douglas T. Scarborough, (410) 671-1567/3348.

Sincerely,

Douglas T. Scarborough Contracting Officer's

Representative DAAA15-87-D-0016

Joseph A. Ricci

Contracting Officer's

Representative DAAA15-90-D-0014

James J McKenna Contracting Officer's Representative

DAAA15-91-D-0008

Mary Ellen Heppner Contracting Officer's

Representative DAAA15-91-D-0010

Charles A. Lechner
Contracting Officer's
Representative
DAAA15-90-D-0007

Enclosure

#### Copies Furnished (with enclosure):

Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180
Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177,
Commerce City, Colorado 80037
Mr. Rod Pendleton, ABB Environmental Services, 261 Commercial Street, Portland, Maine 04112
Mr. David Spencer, Versar, Inc., 2010 Cabot Boulevard West,
Langhorne, Pennsylvania 19047
Mr. Anthony Enweze, Ebasco Services, Inc., 2111 Wilson Boulevard,

Suite 1000, Arlington, Virginia 22201-3058 Mr. Harry Williams, SEC/Donohue, Inc., 743 Horizon Court, Suite 240, Grand Junction, Colorado 81506

# **Arthur D Little**

Arthur D. Little, Acorn Park Campridge Massacr 02140-2390 USA

Telephone 617 864 5 Fax 617 661 5830 Telex 921436

July 24, 1992

Commander

U.S. Army Toxic & Hazardous Materials Agency Attn: CETHA-TS-A/Mr. Douglas Scarborough Aberdeen Proving Ground, Maryland 21010-5401

Amsterdam Berlin

Brussels Cambridge, U.K.

Cambridge, U.S. Caracas Houston

London
Los Angeles
Madrid
Mexico City

Milan Munich New York

Paris Riyadh San Francisco Santa Barbara São Paulo

São Paulo Singapore Sydney Taipei Tokyo

Toronto Washington Wiesbaden Dear Mr. Scarborough:

EC#1968

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached tables.

If you have any questions, please do not hesitate to contact me.

Sincerely,

In Theodore A. Olsson

Manager, Environmental Analysis

Environmental Technology & Analysis Section

/jmm

Enclosure

# Weekly Control Chart Summary

July 24, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|-----------------|---------------------|-------------------|------------------------------|
| EGL | 49                | PI           | UW26   | Explosives Wate | 02-Jul-92           | 14                |                              |
| EGM | 49                | PI           | UW26   | Explosives Wate | 04-Jul-92           | 12                |                              |
| IHU | 50                | RK           | TT08   | Ion Chrom Water | 16-Jul-92           | 3                 |                              |
| IHW | 50                | RK           | TT08   | Ion Chrom Water | 17-Jul-92           | 4                 |                              |
| IHT | 51                | RK           | TT08   | Ion Chrom Water | 15-Jul-92           | 4                 |                              |

| Method  | Analysis     | Number of lots | Number of Deliver Orders |
|---------|--------------|----------------|--------------------------|
| JD13-PB | GFAA Soil-P  | 1              | 2                        |
| KT04    | Ion Chrom S  | 6              | 1                        |
| KY07    | Cyanide Soil | 3              | 1                        |
| LH13    | Pest/PCB Soi | 2              | 2                        |
| LM16    | Voas GCMS    | 4              | 2                        |
| SD24-SE | GFAA Water   | 1              | 1                        |
| SS16    | ICP Water    | 2              | 2                        |
| TT08    | Ion Chrom W  | 3              | 3                        |
| UH16    | Pest/PCB Wa  | 3              | 2                        |
| _UM33   | Voas GCMS    | 1              | 1                        |
| UW26    | Explosives W | 2              | 3                        |

Weekly Control Chart Summary

July 24, 1992

| Lot | Delivery<br>Order | Installation | Method | Analysis      | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|--------|---------------|---------------------|-------------------|------------------------------|
| MFF | ABB               | BA           | SS16-A | ICP Water-ABB | 28-Jun-92           | 14                |                              |
| MEZ | ABB               | ВА           | SS16-B | ICP Water-ABB | 27-Jun-92           | 22                |                              |

ABB Contract Number DAAA15-91-D-008

July 24, 1992

| Lot | Delivery<br>Order | Installation | Method  | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|-----------------|---------------------|-------------------|------------------------------|
| CEB | EB01              | TS           | LH13    | Pest/PCB Soil E | 17-Jul-92           | 7                 |                              |
| VKG | EB01              | TS           | LM16    | Voas GCMS Soil  | 06-Jul-92           | 8                 |                              |
| VKI | EB01              | TS           | LM16    | Voas GCMS Soil  | 09-Jul-92           | 7                 |                              |
| FOV | EB01              | TS           | SD24-SE | GFAA Water-SE   | 15-Jul-92           | 3 i               |                              |
| CEC | EB01              | TS           | UH16    | Pest/PCB Water  | 17-Jul-92           | 2                 | _                            |
| VKJ | EB01              | TS           | UM33    | Voas GCMS Water | 13-Jul-92           | 8                 |                              |
| EGM | EB01              | TS           | UW26    | Explosives Wate | 04-Jul-92           | 4                 |                              |

Ebasco (EB01) Contract Number DAAA15-91-0010

July 24, 1992

| Lot | Delivery<br>Order | Installation | Method  | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|-----------------|---------------------|-------------------|------------------------------|
| FNZ | SE01              | TN           | JD13-PB | GFAA Soil-PB    | 06-Jul-92           | 36                |                              |
| IHO | SE01              | TN           | KT04    | Ion Chrom Soil  | 08-Jul-92           | 2                 |                              |
| IHP | SE01              | TN           | KT04    | Ion Chrom Soil  | 09-Jul-92           | 4                 |                              |
| IHO | SE01              | TN           | KT04    | Ion Chrom Soil  | 10-Jul-92           | 10                |                              |
| IHR | SE01              | TN           | KT04    | Ion Chrom Soil  | 14-Jul-92           | 3                 |                              |
| IHS | SE01              | TN           | KT04    | Ion Chrom Soil  | 15-Jul-92           | 16                |                              |
| IHV | SE01              | TN           | KT04    | Ion Chrom Soil  | 16-Jul-92           | _ 8               |                              |
| ZUG | SE01              | TN           | KY07    | Cyanide Soil    | 02-Jul-92           | 14                |                              |
| ZUJ | SE01              | TN           | KY07    | Cyanide Soil    | 02-Jul-92           | 13                |                              |
| ZUK | SE01              | TN           | KY07    | Cyanide Soil    | 06-Jul-92           | 10                |                              |
| VKK | SE01              | TN           | LM16    | Voas GCMS Soil  | 15-Jul-92           | 11                |                              |
| VKL | SE01              | TN           | LM16    | Voas GCMS Soil  | 16-Jul-92           | 5                 |                              |
| IHU | SE01              | TN           | TT08    | Ion Chrom Water | 16-Jul-92           | 2                 |                              |
| IHW | SE01              | TN           | TT08    | Ion Chrom Water | 17-Jul-92           | 1                 |                              |
| EGL | SE01              | TN           | UW26    | Explosives Wate | 02-Jul-92           | 1                 |                              |

SEC (SE01) Contract Number DAAA15-90-D-0007



# Weekly Control Chart Summary July 24, 1992

| Lot | Delivery<br>Order | Installation | Method  | Analysis        | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|-----|-------------------|--------------|---------|-----------------|---------------------|-------------------|------------------------------|
| FNZ | V01               | ТО           | ЛD13-РВ | GFAA Soil-PB    | 06-Jul-92           | 3                 |                              |
| CDW | V01               | ТО           | LH13    | Pest/PCB Soil E | 30-Jun-92           | 3                 |                              |
| CDZ | V01               | ТО           | UH16    | Pest/PCB Water  | 08-Jul-92           | 6                 |                              |
| CEA | V01               | то           | UH16    | Pest/PCB Water  | 09-Jul-92           | 3                 |                              |

Versar (V01) Contract Number DAAA15-90-D-0014



# DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND. MARYLAND 21010-5401



September 24, 1992

Technical Support Division

Mr. Theodore A. Olsson Arthur D. Little, Inc. 15 Acorn Park Cambridge, Massachusetts 02140-2390

Dear Mr. Olsson:

Your control chart submission dated September 4, 1992, for Tooele Army Depot, Cameron Station, Rocky Mountain Arsenal, Tacony Warehouse, and Badger Army Ammunition Plant, has been reviewed. The methods, lots, and installations are provided at the enclosure.

The following comments apply to this submission:

- a. Method JD13 Lots FPA, FPE, FPG, FPI, FOH, FPB, and FPF are acceptable.
- b. Method JS15 Lots MFH and MFN are acceptable. However, the following data must be removed from these lots and submitted as method "99":
  - (1) All data for test name CO in lot MFH.
  - (2) All data for test names CD, CO, and ZN in lot MFN.
  - c. Method LH13 Lot CEE is acceptable.
- d. Method LM15 Lots SJZ, SKB, SKC, SKD, SKE, SKF, and SKI are acceptable.
  - e. Method LW26 Lots EGT and EGV are acceptable.
  - f. Method SD24 Lots FPK and FPD are acceptable.

- g. Method SS16 Lots MFM and MFO are acceptable. However, all data for test name ZN in lot MFO must be removed from this lot and submitted as method "99."
- h. Method TF10 Lot IID is acceptable; however, all data must be flagged with an "N."
  - Method UH16 Lot CEF is acceptable.
  - Method UM16 Lot SJC is acceptable.
  - Method UW31 Lot LAJ is acceptable.

All data in this submission which are considered acceptable should be transferred to Potomac Research, Inc. In addition, data for Rocky Mountain Arsenal should be transferred to D. P. Associates, Inc., at the Arsenal.

Question or comments concerning this review should be addressed to Mr. Douglas T. Scarborough, (410) 671-1567/3348.

Sincerely,

Douglas T. Scarborough Contracting Officer's Representative

DAAA15-87-D-0016

James J. McKenna

Contracting Officer's

Representative DAAA15-91-D-0008

Mary Ellen Heppner Contracting Officer's

Representative DAAA15-91-D-0010

Enclosure

Rosemary À. Queen Contracting Officer's Representative

DAAA15-90-D-0010

Charles A. Lechner

Contracting Officer's

Representative DAAA15-90-D-0007

Joseph A. Ricci

Contracting Officer's

Representative DAAA15-90-D-0014

# Copies Furnished (with enclosure):

- Program Manager for Rocky Mountain Arsenal, Attention: AMXRM-LS (Mr. Gregory Mohrman), Commerce City, Colorado 80022-2180
- Dr. Jack Pantleo, D. P. Associates, Inc., P.O. Box 177, Commerce City, Colorado 80037-1777
- Mr. Anthony Enweze, Ebasco Services, Inc., 2111 Wilson Boulevard, Suite 1000, Arlington, Virginia 22201-3058
- Mr. Harry Williams, SEC/Donohue, 743 Horizon Court, Suite 240, Grand Junction, Colorado 81506
- Mr. Rod Pendleton, ABB Environmental, Inc., P.O. Box 7050, /
- Portland, Maine 04112 Mr. David Spencer, Versar Laboratories, Inc., 2010 Cabot Boulevard West, Langhorne, Pennsylvania 19047
- Mr. William Mills, Woodward-Clyde Federal Services, One Church Street, Suite 404, Rockville, Maryland 20850

# Arthur D Little

Arthur D. Little, Inc. Acom Park Camonoge, Massachusetts 02140-2390 USA

Telephone 617 864 5770 Fax 617.661 5830 Telex 921436

September 8, 1992

Commander
U.S. Army Toxic & Hazardous Materials Agency
Attn: CETHA-TS-A/Mr. Douglas Scarborough
Aberdeen Proving Ground, Maryland
21010-5401

Armsterdam
Berlin
Brussels
Gambridge, U.K
Cambridge, U.S.
Caracas
Houston
London
Los Angeles
Madrig

Mexico City

Milan Munich Dear Mr. Scarborough:

EC#2069

Please find enclosed, this week's report containing the control charts and our comments for the lots summarized in the attached table. In addition, I have enclosed a diskette with the control chart data for these methods.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Theodore A. Olsson

Manager, Environmental Analysis

In H. al

Environmental Technology & Analysis Section

Enclosure

Riversity San Francisco
Santa Barbara
São Paulo
Singapore
Sydney
Taipe:
Tokvo
Toronto
Washington

Wiesbaden

September 4, 1992

| Lot  | Delivery<br>Order | Installation | Method  | Analysis         | Date of<br>Analysis | Number of Samples | Previous<br>Weekly<br>Report |
|------|-------------------|--------------|---------|------------------|---------------------|-------------------|------------------------------|
| FPA  | SE01              | TN           | JD13-AG | GFAA Soil-AG     | 30-Jul-92           | 21                |                              |
| FPE  | SE01              | TN           | JD13-AG | GFAA Soil-AG     | 04-Aug-92           | 18                |                              |
| FPG  | SE01              | TN           | JD13-AG | GFAA Soil-AG     | 11-Aug-92           | 18                |                              |
| FPI  | SE01              | אד           | /D13-AG | GFAA Soil-AG     | 12-Aug-92           | 8                 |                              |
| POH  | SE01              | TN           | JD13-PB | GFAA Soil-PB     | 10-Aug-92           | 30                |                              |
| FPB  | SE01              | אד           | ЛD13-РВ | GPAA Soil-PB     | 12-Aug-92           | 21                |                              |
| FPF  | SE01              | אד           | JD13-PB | GFAA Soil-PB     | 13-Aug-92           | 18                |                              |
| MFH  | V01               | то_          | JS15    | ICP Soil         | 15-Jul-92           | 4                 |                              |
| MFN  | EB01              | TS           | JS15    | ICP Soil         | 14-Jul-92           | 14                |                              |
| CEE  | SE01              | אד           | LH13    | Pest/PCB Soil E  | 24-Aug-92           | _ 2               |                              |
| SJZ  | SE01              | TN           | LM15    | Semivous GCMS S  | 27-Jul-92           | 10                |                              |
| SKB  | SE01              | TN           | LM15    | Sernivous GCMS S | 09-Jul-92           | 9                 |                              |
| SKC  | SE01              | TN           | LM15    | Semivors GCMS S  | 30-Jul-92           | 9                 |                              |
| SKD_ | SE01              | TN           | LM15    | Semivous GCMS S  | 30-Jul-92           | 9                 |                              |
| SKE  | SE01              | TN           | LM15    | Semivous GCMS S  | 31-Jul-92           | 10                |                              |
| SKP  | EB01              | TS           | LM15    | Semivoss GCMS S  | 10-Jul-92           | 2                 |                              |
| SKF  | SE01              | אד           | LM15    | Semivous GCMS S  | 10-Jul-92           | 4                 |                              |
| SKI  | EB01              | TS           | LM15    | Semivous GCMS S  | 23-Jul-92           | 6                 |                              |
| EGT  | SE01              | TN           | LW26    | Explosives Soil  | 12-Aug-92           | 17                |                              |
| EGV  | SE01              | TN           | LW26    | Explosives Soil  | 14-Aug-92           | 17                |                              |
| FPK  | SE01              | TN           | SD24-AG | GFAA Water-AG    | 13-Aug-92           | 3                 |                              |
| FPD  | SE01              | TN           | SD24-PB | GFAA Water-PB    | 07-Aug-92           | 3                 |                              |
| MFM  | EB01              | TS           | SS16    | ICP Water        | 10-Jul-92           | 3                 |                              |
| MFO  | V01               | то           | S\$16   | ICP Water        | 22-Jul-92           | 10                |                              |
| ID   | 50                | RK           | TF10    | Nitrogen Water   | 07-Aug-92           | 2                 |                              |
| CEF  | SE01              | TN           | UH16    | Pest/PCB Water   | 21-Aug-92           | 2                 |                              |
| SJC  | ABB               | BA           | UMI6    | Semivous GCMS W  | 13-May-92           | 51                | 29-May-                      |
| AJ   | WCFS              | CM           | UW31    | Herbicides/Wate  | 12-Nov-91           | 6                 | 22-Nov-9                     |

ABB Contract Number DAAA15-91-D-008 \*\* Lot overlooked in original submission

Ebasco (EB01) Contract Number DAAA15-91-0010

SEC & CNES (SE01) Contract Number DAAA15-90-D-0007

Verser (V01) Contract Number DAAA15-90-D-0014

WCFS Contract Number DAAA15-90-D-0010 \*\* Lot overlooked in original submission

Overs!! Status

|         | Overall Status  |      |            |
|---------|-----------------|------|------------|
| Method  | Апајузів        | Lois | Del orders |
| JD13-AG | GFAA Soil-AG    | 4    | 1          |
| JD13-PB | GFAA Soil-PB    | 3    | 1          |
| JS15    | ICP Soil        | 2    | 2          |
| LH13    | Pest/PCB Soil E | 1    | 1          |
| LM15    | Semivous GCMS S | 7    | 2          |
| LW26    | Explosives Soil | 2    |            |
| SD24-AG | GFAA Water-AG   | 1    | 1          |
| SD24-P8 | GFAA Water-PB   | 1    | 1          |
| SS16    | ICP Water       | 2    | 2          |
| TF10    | Nitrogen Water  | 1    | 1          |
| UH16    | Pest/PCB Water  | 1    | ı          |
| UM16    | Semiyous GCMS W | 1    | 1          |
| UW31    | Herbicides/Wate | 1    | 1_         |

# Appendix L.6

ABB-ES Groundwater Screening Results

W0039213LAPP 6853.

# Appendix L.6

# **ABB-ES Groundwater Screening Results**

This appendix presents field screening results collected by ABB-ES during the 1991 monitoring well installation program. The field screening consisted of collecting groundwater samples from borehole casings and newly developed wells to obtain a general assessment of groundwater quality prior to completion of all monitoring well installations during the 1991 effort. The general assessment was needed to assure USATHAMA and ABB-ES that the monitoring wells installed along County Highway Z would bound the eastern and western limits of the contaminant plume as well as assess groundwater quality north of Landfill 1. Samples were submitted for quick-turnaround analysis to provide an indication of the adequacy of lateral monitoring well spacing and vertical well screen placement prior to demobilization of the drilling subcontractor. Samples were analyzed by ABB Environmental Services, Inc. Analytical Laboratory. Analyses performed were not USATHAMA-certified.

The borehole casings and newly developed wells represent disturbed environments where groundwater samples do not necessarily reflect equilibrium conditions. VOC concentrations in these disturbed environments may have a low bias relative to the nearby undisturbed groundwater. To assess how much the groundwater samples were low biased in the disturbed environments, several samples were collected from borehole casings (SPN-91-03D and SPN-91-04D) at depths adjacent to existing monitoring wells where contaminated groundwater samples had been collected during the 1990 Round I and II sampling efforts (SPN-89-03C and SPN-89-04C).

The samples were all collected with a decontaminated PVC bailer from borehole casings and newly installed monitoring wells. Within the borehole casings sampling was accomplished by discontinuing the air circulations (all of the borings were advanced with the dual-walled reverse air circulation drilling technique) and allowing the water level in the casing to stabilize for approximately one-half hour prior to sampling. At the newly developed monitoring wells, groundwater samples were collected immediately after well installations were complete.

The results of these efforts are summarized on Table L-6 and are presented in detail on the laboratory data sheets which follow. Overall, the results indicate the well installations off post south of BAAP adequately bound the contaminant plume. This is confirmed by the results of the Round One and Two groundwater sampling which indicate good correlation

W0039213LAPP 6853-12

# APPENDIA L

between the results from the borehole casings/newly developed wells and the Round One and Round Two sampling efforts.

ABB-ES GROUNDWATER SCREENING RESULTS FOR SELECT VOCS (1)

# REMEDIAL INVESTIGATION BADGER ARMY AMMUNITION PLANT

| Round Two                                        | TRCLE        | 2.44(4)     | 2.44(5)  | ( <u>(</u>   | ( <u>)</u> | <u>.</u> 1 | ė    | Ę     | , 1        | ı     | •          | ı        | 1    | •      |       | 1   | 1        | 1        | •        | •    | 0.287 | •           | 0.287  | 1          | ı        | 1        | ı   |
|--------------------------------------------------|--------------|-------------|----------|--------------|------------|------------|------|-------|------------|-------|------------|----------|------|--------|-------|-----|----------|----------|----------|------|-------|-------------|--------|------------|----------|----------|-----|
| Rou                                              | 70           | 8.43(4)     | 71.6(5)  | ( <u>6</u> ) | ( <u>)</u> | 2.94       | ė    | Ę     | 2.94       | 1     | ı          | 1        | ł    | ı      | ı     | ı   | 2.94     | 1.68     | ı        | 1    | 10.8  | 3.33        | 10.8   | 3.33       | 2.75     | 1        | ı   |
| lone                                             | TRCLE        | 4.7(4)      | 1.59(5)  | (9)<br>-     | ( <u>9</u> | ì          | Ė    | Ę     | <u>;</u> , | •     | 1          | ı        | ı    | 1      | 1     | 1   | ı        | ı        | ı        | ı    | •     | 0.425       | ı      | 0.425      | ı        | 1        | •   |
| Round One                                        | N CC P       | 24(4)       | 46.1(5)  | )<br>(9)-    | ( <u>)</u> | 77         | 6-   | Ę     | 77         | 1     | 1          | ı        | ı    | 1      | ı     | ı   | ı        | •        | •        | ı    | 7.25  | •           | 7.25   | 1          | 1        | 1        | 1   |
| 11.0df                                           | Conc.(ug/L)  |             | 7        | •            | ı          | ,          | ı    | •     |            | ,     | 1          | •        | •    | •      | 1     | 1   | •        | ı        | 1        | 1    | ı     | 1           | •      | •          | ı        | ı        | 1   |
| 71.00                                            | Conc.(ug/L)  | m           | <b>8</b> |              | ı          | ı          | •    | ı     | s.         | ı     | ı          | •        | •    | •      | 1     |     | _        | <b>~</b> | ~        | 1    | •     | 1           | •••    | 1          | ı        | ı        | ı   |
|                                                  | <b>1</b> 01  |             |          | ÷            | 16         | <u>ئ</u>   | 31   | 2     | <u>م</u>   | 91    | 7          | <u>م</u> | 2    | 2      | 16/   | 18/ | <u>5</u> | <b>8</b> | <u>~</u> | Ē    | Ē     | <u>~</u>    | =      | =          | <u>5</u> | <u>5</u> | 16% |
| <u> </u>                                         | Date Sampled | 10/0/01     | 10/08/91 | 10/105       | 10/10      | 10/10      | 1014 | 10/14 | 10/16      | 71/01 | 10/19      | 10/21    | 1023 | 10/26/ | 10/27 | 107 | 102      | 202      | 1029     | 1706 | 150   | 99 <u>7</u> | 11/06/ | 11/06/5    | 11/09    | <u> </u> | 2   |
| Septh of Sample<br>Collection                    |              | 80 10/01/91 |          |              |            |            |      |       |            |       |            |          |      |        |       |     | (3)      |          |          |      |       |             |        |            |          |          | (3) |
| Sample Collected Depth of Sample from Collection |              |             | 92       | 91           | 110        | 148        | 8    | 110   | ච          | ල     | : <u>6</u> | ල        | ල    | ල      | ·ච    | ල   | ·ච       | ල        | ච        | ල    | ල     | ල           | :6     | : <u>6</u> | ල        | ල        | ල   |

# Notes:

- 1) Groundwater samples were collected in select wells during drilling and/or immediately after development to assess the need for any additional well installations. Samples were shipped to ABB Environmental Services, Inc. Ambrical Laboratory for VOC analysis with a quick turnaround time. The analyses performed were not USATHAMA certified.

  2) Boring samples were collected from the drill casing as it was being advanced prior to well installation; well samples were collected from the drill casing as it was being advanced prior to well installation; well samples were collected from the drill casing as it was being advanced prior to well installation; well samples were collected from sell spin and development, but prior to Round One sampling (November and December 1991).

  3) Screened intervals of monitoring well SPN 89 04B

  5) Data from monitoring well SPN 89 04B

  6) Data from monitoring well SWN 91 05B

  7) Data from monitoring well SWN 91 05B

  7) Data from monitoring well SWN 91 01B

  7) Data from monitoring well SWN 91 01B

# **ABB-ES LABORATORY REPORTS**

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Rod Penellton HP-5

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Tell Pedett HP-2

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### MEMORANDUM

TO: Jeff Pickett

FROM: Laura J. O'Meara

DATE: October 15, 1991

SUBJ: Report of Analysis

Please find enclosed the Report of Analysis for the samples received by the laboratory on October 2, 1991. This Report of Analysis is identified by the Reference Number: 12032. This cover memo is an integral part of the Report of Analysis.

If you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact me or Geoff Pellechia. We appreciate your continued use of ABB Environmental Services for your analytical needs and look forward to working with you in the future.

dt

ABB ENVIRONMENTAL, IMC. AMALYTICAL LABORATORY SERVICES 340 COUNTY ROAD NO. 5 P. O. BOX 720 MESTBROOK, ME 04092 (207)874-2400/FAX(207)775-4029

USATHAMA BADGER AMMUNITION PLANT BARABOO WI 53913 REPORT OF ANALYSIS 10/14/91 REFERENCE NUMBER 12032 PAGE 1

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ENT SAMPLE ID<br>ABB SAMPLE ID<br>DATE RECEIVED<br>COMPOUND LIST - V | 9 <mark>PN-9</mark> \<br><del>PBN-68</del><br>9127500<br>10/02/9       | 1                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------|
| CHLOROMETHANE BROMOMETHANE VINYL CHLORIDE CHLOROETHANE HETHYLENE CHLORIDE ACETONE CARBON DISULFIDE 1,1-DICHLOROETHENE 1,1-DICHLOROETHENE 1,2-DICHLOROETHENE CHLOROFORM 1,2-DICHLOROETHANE 2-BUTANONE 1,1,1-TRICHLOROETHANE 2-BUTANONE 1,1,2-TETRACHLORIDE VINYL ACETATE BROMODICHLOROMETHANE 1,2,2-TETRACHLOROETHANE 1,2-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE BENZENE CIS-1,3-DICHLOROPROPENE BROMOFORM 2-HEXANONE 4-METHYL-2-PENTANONE TETRACHLOROETHENE TOLLENE CHLOROBENZENE ETHYLBENZENE STYRENE TOTAL XYLENES |                                                                      | 1111111111111111111111111111111111111                                  | 0 UG/L<br>0 UG/L<br>0 UG/L<br>1 UG/L |
| VOLATIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | e surrogate recov                                                    | ÆRY                                                                    |                                      |
| TOLUENE-D8 P-BROMOFLUOROBENZENE 1,2-DICHLOROETHANE-D4 SIGNATURE RELEASED BY CLIENT AUTHORIZATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AURA JOHEAN                                                          | 100<br>9<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10 | 1 X                                  |

USATHAMA REPORT OF ANALYSIS 10/14/91
BADGER AMMUNITION PLANT REFERENCE NUMBER 12032
BARABOO WI 53913 PAGE 2

- J = Indicates an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.
- B = Analyte was detected in the laboratory method blank analyzed concurrently with the samples.

For the Volatile Organic analysis of sample number 91275001: Methylene Chloride was detected in the method blank at 1 J ug/L, Acetone was detected in the method blank at 4 J ug/L, Carbon Disulfide was detected in the method blank at 2 J ug/L, and Chloroform was detected in the method blank at 1 J ug/L.

# ANALYTICAL METHOD INFORMATION

PARAMETER: TARGET COMPOUND LIST (TCL) VOLATILE ORGANICS

METHOD: 624/8240 MATRIX: AQUEOUS

| Compound                  | Practical Quantitation Limit (PQL) |
|---------------------------|------------------------------------|
|                           | (ug/L)                             |
| Chloromethane             | 10                                 |
| Bromomethane              | 10                                 |
| Vinyl Chloride            | 10                                 |
| Chloroethane              | 10                                 |
| Methylene Chloride        | 10                                 |
| Acetone                   | 15                                 |
| Carbon Disulfide          | 10                                 |
| 1,1-Dichloroethene        | 5                                  |
| 1,1-Dichloroethane        | 5                                  |
| 1,2-Dichloroethene        | 5                                  |
| Chloroform                | 5                                  |
| 1,2-Dichloroethane        | 5                                  |
| 2-Butanone                | 15                                 |
| 1,1,1-Trichloroethane     | 3                                  |
| Carbon Tetrachloride      | 5                                  |
| Vinyl Acetate             | 15                                 |
| Bromodichloromethane      | 5                                  |
| 1,1,2,2-Tetrachloroethane | 5                                  |
| 1,2-Dichleropropene       | 5                                  |
| trans-1,3-Dichloropropene | 5                                  |
| Trichloroethene           | 5                                  |
| Dibromochloromethane      | 5                                  |
| 1,1,2-Trichloroethane     | 5                                  |
| Benzene                   | 5                                  |
| cis-1,3-Dichloropropene   | 5                                  |
| Bromoform                 | 5                                  |
| 2-Hexanone                | 15                                 |
| 4-Methyl-2-Pentanone      | 15                                 |
| Tetrachloroethene         | 5                                  |
| Toluene                   | 5                                  |
| Chlorobenzene             | 5                                  |
| Ethylbenzene              | 5                                  |
| Styreae                   | 5                                  |
| Total Xylenes             | 5                                  |

PQL = Practical Quantitation Limit represents the normally obtainable measurement level achieved by the laboratory under practical and routine laboratory conditions for a variety of sample matrices.

Sample-specific reporting limits may vary from the standard PQL as a result of sample matrix and compound concentration.

# **METHOD REFERENCES**

### **EPA**

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020.

"Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA-600/4-82-057, July 1982, EMSL Cincinnati, Ohio 45268.

"Test Methods for Evaluating Solid Waste", EPA-SW-846, November 1986, Third Edition, Office of Solid Waste and Emergency Response, Washington, DC, 20460.

"Guidelines Establishing Test Procedures for the Analysis of Pollutants
Under the Clean Water Act", Federal Register Vol. 49, No. 209, October 26, 1984.

Federal Register Vol. 52, No. 13, January 21, 1987.

"Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", Physical and Chemical Methods Branch, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268.

Caucus Organic and Inorganic Protocols, USEPA National Contract Laboratory Program.

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma Optical Emission Spectrometry" (EPA/EMSL/RTP, N.C.)—Approved for Use by EPA, EMSL, RTP, N.C., EQL-0380-045.

"Reference Method for the Determination of Particulate Matter as TSP in the Atmosphere", 40CFR Part 50 Appendix B.

"Reference Method for the Determination of Particulate Matter as PM-10 in the Atmosphere", 40CFR Part 50 Appendix J.

### SM

\*Standard Methods for the Examination of Water and Wastewater\*, American Public Health Association, 16th Edition.

# Other

"Method of Soil Analysis; Chemical and Microbiological Properties", Part 2, American Society of Agronomy, C.A. Black, ed., 1965.

"Official Methods of Analysis of the Association of Official Analytical Chemists", Methods Manual, 14th ed., 1985.

| PURCHASE ORDER/JOB NUM WHERE TO SEND REPORT: [                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | APANY LING ADDRESS SAMMUNITA MBER 85 DIRECTLY TO CL ECJ-NAME 9 TEANICAL PROJECT NAGER | AMA  adger Arm  on Plant  53-04  JENT  Tess Pick  MANAGEN | ny       | SOLIDATA  TYPE ( LIST AI  FILT  ADDITION  SAM  V. A | DE MASTE DATE OF SAMPLE, NY HAZARDS. FERED IN FIE ONAL INFORMATION OF THE MASTER  THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE MASTER OF THE | MATEV LISTED BELON  BLD MATION OR SP  LISTED SCLON  MATION OR SP  LISTED SCLON  MATION OR SP | N-FILTERE | 1 3~ 1                                 |
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| SAMPLE IDENTIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LAB NUMBERS                                                                           | DATE SAMPLED                                              | SAMPLED  | BY                                                  | 461                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ANALYSES                                                                                     | REQUIRED  |                                        |
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ORIG. C. Walker 147-3 01-2.81

# MEMORANDUM

TO: Jeff Pickett

FROM: Laura J. O'Meara

DATE: October 15, 1991

SUBJ: Report of Analysis

SPN-91-03D

Please find enclosed the Report of Analysis for the samples received by the laboratory on October 9, 1991. This Report of Analysis is identified by the Reference Number: 12037. This cover memo is an integral part of the Report of Analysis.

If you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact me or Geoff Pellechia. We appreciate your continued use of ABB Environmental Services for your analytical needs and look forward to working with you in the future.

dt

ABB ENVIRONMENTAL, INC.
ANALYTICAL LABORATORY SERVICES
340 COUNTY ROAD NO. 5
P. 0. BOX 720
MESTBROOK, ME 04092
(207)874-2400/FAX(207)775-4029

USATHAMA ABERDERN PROVING GROUND EDGEWOOD AREA ND 21010-5423 REPORT OF ANALYSIS 10/15/91 REFERENCE NUMBER 12037 PAGE 1

| a. v.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 | 5PN-91-                                                                         | 05D 100 A.  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------|-------------|
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | INT SAMPLE ID<br>ABB SAMPLE ID<br>NATE RECEIVED | SPN91-03<br>91282001<br>10/09/91                                                | UNITS       |
| TARGET (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COMPOUND LIST -                                 | VOLATILES                                                                       |             |
| CHLOROMETHANE BROMOMETHANE VINYL CHLORIDE CHLOROETHANE METHYLENE CHLORIDE ACETONE RBON DISULFIDE L-DICHLOROETHENE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 2-BUTANONE 1,1,1-TRICHLOROETHANE 2-BUTANONE 1,1,1-TRICHLOROETHANE 1,1,2-DICHLOROMETHANE 1,1,2-TETRACHLORIDE VINYL ACETATE BROMODICHLOROMETHANE 1,1,2-TRICHLOROMETHANE 1,1,2-TRICHLOROFTHANE 1,1,2-TRICHLOROFTHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROFTHANE 1,1,2-TRICHLOROFTHANE 1,1,2-TRICHLOROFTHANE 1-1,2-TRICHLOROFTHANE 1-1-Z-ANONE 4-METHYL-2-PENTANONE TETRACHLOROETHENE TOLUENE CHLOROBENZENE ETHYLBENZENE STYRENE TOTAL XYLENES |                                                 | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 |             |
| VOLATILE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SURROGATE RECO                                  | NERY                                                                            |             |
| TOLUENE-D8 P-BRONOFLUOROBENZENE 1,2-DICHLOROETHANE-D4 SIGNATURE RELEASED BY CLIENT AUTHORIZATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | XOUAN JOJHE                                     | 102<br>98<br>0'M/ea/c                                                           | X<br>X<br>X |

10/15/91 **USATHAMA** REPORT OF ANALYSIS REFERENCE NUMBER BADGER AMMUNITION PLANT BARABOO WI 53913 PAGE

12037

- Indicates an estimated value. The analyte was detected in the sample at J = a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.
- Analyte was detected in the laboratory method blank analyzed concurrently with the samples.

For the Volatile Organic analysis: Acetone was detected in the method blank at 3 J ug/L.

ANALYTICAL METHOD INFORMATION

PARAMETER: TARGET COMPOUND LIST (TCL) VOLATILE ORGANICS

METHOD: 624/8240 MATRIX: AQUEOUS

| Compound                  | Practical Quantitation Limit (PQL) |
|---------------------------|------------------------------------|
|                           | (ug/L)                             |
| Chloromethane             | 10                                 |
| Bromomethane              | 10                                 |
| Vinyl Chloride            | 10                                 |
| Chloroethane              | 10                                 |
| Methylene Chloride        | 10                                 |
| Acetone                   | 15                                 |
| Carbon Disulfide          | 10                                 |
| 1,1-Dichloroethene        | 5                                  |
| 1,1-Dichloroethane        | 5                                  |
| 1,2-Dichloroethene        | 5                                  |
| Chloroform                | 5                                  |
| 1,2-Dichloroethane        | 5                                  |
| 2-Butanone                | 15                                 |
| 1,1,1-Trichloroethane     | 5                                  |
| Carbon Tetrachloride      | 5                                  |
| Vinyi Acetate             | 15                                 |
| Bromodichloromethane      | 5                                  |
| 1,1,2,2-Tetrachloroethane | 5                                  |
| 1,2-Dichloropropane       | 5                                  |
| trans-1,3-Dichloropropene | 5                                  |
| Trichloroethene           | 5                                  |
| Dibromochloromethane      | 5                                  |
| 1,1,2-Trichloroethane     | 5                                  |
| Benzene                   | 5                                  |
| cis-1,3-Dichloropropene   | 5                                  |
| Bromoform                 | 5                                  |
| 2-Hexanone                | 15                                 |
| 4-Methyl-2-Pentanone      | 15                                 |
| Tetrachloroethene         | 5                                  |
| Toluene                   | 5                                  |
| Chlorobenzene             | 5                                  |
| Ethylbenzene              | 5                                  |
| Styrene                   | 5                                  |
| Total Xylenes             | 5                                  |

PQL = Practical Quantitation Limit represents the normally obtainable measurement level achieved by the laboratory under practical and routine laboratory conditions for a variety of sample matrices.

Sample-specific reporting limits may vary from the standard PQL as a result of sample matrix and compound concentration.

# **METHOD REFERENCES**

### **EPA**

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020.

"Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA-600/4-82-057, July 1982, EMSL Cincinnati, Ohio 45268.

"Test Methods for Evaluating Solid Waste", EPA-SW-846, November 1986, Third Edition, Office of Solid Waste and Emergency Response, Washington, DC, 20460.

"Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act", Federal Register Vol. 49, No. 209, October 26, 1984.

Federal Register Vol. 52, No. 13, January 21, 1987.

"Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", Physical and Chemical Methods Branch, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268.

Caucus Organic and Inorganic Protocols, USEPA National Contract Laboratory Program.

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma Optical Emission Spectrometry" (EPA/EMSL/RTP,N.C.)—Approved for Use by EPA,EMSL,RTP,N.C., EOL-0380-045.

"Reference Method for the Determination of Particulate Matter as TSP in the Atmosphere", 40CFR Part 50 Appendix B.

"Reference Method for the Determination of Particulate Matter as PM-10 in the Atmosphere", 40CFR Part 50 Appendix J.

# SM

"Standard Methods for the Examination of Water and Wastewater", American Public Health Association, 16th Edition.

## Other

"Method of Soil Analysis; Chemical and Microbiological Properties", Part 2, American Society of Agronomy, C.A. Black, ed., 1965.

"Official Methods of Analysis of the Association of Official Analytical Chemists", Methods Manual, 14th ed., 1985.

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Rod Rendleton UPS

NI. Kosciensia, Mary

DAY Retions

Science Control

OI-Z.BI

### MEMORANDUM

TO: Jeff Pickett

FROM: Laura J. O'Meara

DATE: October 16, 1991

SUBJ: Report of Analysis

Please find enclosed the Report of Analysis for the Badger Ammunition Plant samples received by the laboratory on October 11, 1991. This Report of Analysis is identified by the Reference Number: 12046. This cover memo is an integral part of the Report of Analysis.

If you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact me or Geoff Pellechia. We appreciate your continued use of ABB Environmental Services for your analytical needs and look forward to working with you in the future.

dt

SWN-91-05D LOM-91-01 ABB ENVIRONMENTAL, INC.
ANALYTICAL LABORATORY SERVICES
340 COUNTY ROAD NO. 5
P. 0. BOX 720
WESTBROOK, ME 04092
(207)874-2400/FAX(207)775-4029

| usathama<br>Badger ah<br>Bararoo (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MUNITION PLANT<br>NI 53913                       |                                                                       |                                         | R                                       | EPORT OF ANALYSIS<br>REFERENCE NUMBER<br>PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10/16/91<br>12046<br>1 |
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| CL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | IENT SAMPLE ID<br>ABB SAMPLE ID<br>DATE RECEIVED | 05D-100<br>912 <del>84</del> 010<br>10/11/91                          | 05D-110<br>91284011<br>10/11/91         | 01-148<br>91284012<br>10/11/91          | UNITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |
| TARGET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | COMPOUND LIST - VO                               | LATILES                                                               |                                         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |
| CHLOROMETHANE BROMOMETHANE VINYL CHLORIDE CHLOROETHANE METHYLENE CHLORIDE ACETONE 1,1-DICHLOROETHENE 1,1-DICHLOROETHENE 1,2-DICHLOROETHENE CHLOROFORM 1,2-DICHLOROETHANE 2-BUTANONE 1,1,1-TRICHLOROETHANE 2-BUTANONE 1,1,2-TETRACHLOROETHANE VINYL ACETATE RROMODICHLOROMETHANE 1,2-DICHLOROPROPANE TRANS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE ENZENE CIS-1,3-DICHLOROPROPENE BENZENE CHLOROBENZENE CHLOROBENZENE STYRENE TOTAL XYLENES |                                                  | 10<br>10<br>10<br>10<br>10<br>10<br>15<br>10<br>5<br>5<br>5<br>5<br>5 | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 100100110555555555555555555555555555555 | 166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1<br>166/1 |                        |
| VOLATIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | E SURROGATE RECOVE                               | RY                                                                    |                                         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |
| TOLUENE-D8 P-BROMOFLUOROBENZENE 1,2-DICHLOROETHANE-D4 SIGNATURE RELEASED BY CLIENT AUTHORIZATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ALLA J. (V                                       | II KANO                                                               | 102<br>102<br>98                        | 99<br>98<br>95                          | X<br>X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |

ANALYTICAL METHOD INFORMATION

PARAMETER: TARGET COMPOUND LIST (TCL) VOLATILE ORGANICS

METHOD: 624/8240 MATRIX: AQUEOUS

| Compound                  | Practical Quantitation Limit (PQL) (ug/L) |
|---------------------------|-------------------------------------------|
| Chloromethane             | 10                                        |
| Bromomethane              | 10                                        |
| Vinyl Chloride            | 10                                        |
| Chloroethane              | 10                                        |
| Methylene Chloride        | 10                                        |
| Acetone                   | 15                                        |
| Carbon Disulfide          | 10                                        |
| 1,1-Dichloroethene        | 5                                         |
| 1,1-Dichloroethane        | 5                                         |
| 1,2-Dichloroethene        | 5                                         |
| Chloroform                | 5                                         |
| 1,2-Dichloroethane        | 5                                         |
| 2-Butanone                | 15                                        |
| 1,1,1-Trichloroethane     | 5                                         |
| Carbon Tetrachloride      | 5                                         |
| Vinyl Acetate             | 15                                        |
| Bromodichloromethane      | 5                                         |
| 1,1,2,2-Tetrachloroethane | 5                                         |
| 1,2-Dichloropropane       | 5                                         |
| trans-1,3-Dichloropropene | 5                                         |
| Trichloroethene           | 5                                         |
| Dibromochloromethane      | 5                                         |
| 1,1,2-Trichloroethane     | 5                                         |
| Benzene                   | 5                                         |
| cis-1,3-Dichloropropene   | 5                                         |
| Bromoform                 | 5                                         |
| 2-Hexanone                | 15                                        |
| 4-Methyl-2-Pentanone      | 15                                        |
| Tetrachloroethene         | 5                                         |
| Toluene                   | 5                                         |
| Chlorobenzene             | 5                                         |
| Ethylbenzene              | 5                                         |
| Styreas                   | 5                                         |
| Total Xylenes             | 5                                         |

PQL = Practical Quantitation Limit represents the normally obtainable measurement level achieved by the laboratory under practical and routine laboratory conditions for a variety of sample matrices.

Sample-specific reporting limits may vary from the standard PQL as a result of sample matrix and compound concentration.

# **METHOD REFERENCES**

### **EPA**

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020.

"Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA-600/4~82-057, July 1982, EMSL Cincinnati, Ohio 45268.

"Test Methods for Evaluating Solid Waste", EPA-SW-846, November 1986, Third Edition, Office of Solid Waste and Emergency Response, Washington, DC, 20460.

"Guidelines Establishing Test Procedures for the Analysis of Pollutants
Under the Clean Water Act", Federal Register Vol. 49, No. 209, October 26, 1984.

Federal Register Vol. 52, No. 13, January 21, 1987.

"Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", Physical and Chemical Methods Branch, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268.

Caucus Organic and Inorganic Protocols, USEPA National Contract Laboratory Program.

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma Optical Emission Spectrometry" (EPA/EMSL/RTP,N.C.)—Approved for Use by EPA,EMSL,RTP,N.C., EQL-0380-045.

"Reference Method for the Determination of Particulate Matter as TSP in the Atmosphere", 40CFR Part 50 Appendix B.

"Reference Method for the Determination of Particulate Matter as PM-10 in the Atmosphere", 40CFR Part 50 Appendix J.

### SM

"Standard Methods for the Examination of Water and Wastewater", American Public Health Association, 16th Edition.

# Other

"Method of Soil Analysis; Chemical and Microbiological Properties", Part 2, American Society of Agronomy, C.A. Black, ed., 1965.

\*Official Methods of Analysis of the Association of Official Analytical Chemists\*, Methods Manual, 14th ed., 1985.

| Compa  Mailing Adddre  Purchase Order/Job Numb  Where to Send Report | ne USATHAM  ny BADGE2  per 6053-0  Directly to Client  ABB - Name Joine  echnical Project Profes | ARMY<br>LICKETH | Results Due Client I.D. No.  Solid Waste I Data Docume Entered in Co Type of Sample List Any Hazard Filtered in File Additional Infor | Cafficient Versil 25 G |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Sample Identification                                                | Lab Numbers                                                                                      | Date Sampled    | Sampled By                                                                                                                            | Analyses Required      |
| SWN-91-05D-100<br>SWN-91-05D-110<br>LOM-91-01-148                    | 91264011                                                                                         | 10.10.41        | ROD Andle to                                                                                                                          | TCL VOA 624            |
|                                                                      | RU                                                                                               |                 |                                                                                                                                       |                        |

ABB Environmental Services, Inc.

| Page Lol L              |              | REMARKS    | INDICATE       | SEDIMENT/SLUDGE  | Water                    | Water                | Mater                 |   |  |  |   |  |   |          | RECEIVED BY: (SKONATURE)                            | RECEIVED BY: (SKANATURE)     |                                          | ABB Environmental Services, Inc |
|-------------------------|--------------|------------|----------------|------------------|--------------------------|----------------------|-----------------------|---|--|--|---|--|---|----------|-----------------------------------------------------|------------------------------|------------------------------------------|---------------------------------|
| ۵                       | E TYPE       |            |                |                  |                          |                      |                       |   |  |  |   |  |   |          |                                                     | DATE/TIME RECE               |                                          | BB Environ                      |
| RECOR                   | SAMPLE TYPE  |            |                |                  |                          |                      |                       |   |  |  |   |  |   | $\dashv$ |                                                     |                              | REMARKS                                  |                                 |
| JSTODY                  |              |            | 5 4 g          | es e             | 20                       | 3 3                  | 3 3                   |   |  |  |   |  |   |          | RELINCUISHED BY: (SKGNATURE)                        | RELINQUISHED BY: (SKANATURE) | DATE/TIME                                |                                 |
| CHAIN OF CUSTODY RECORD |              | \ <u>\</u> |                | STATION LOCATION | SWN-91-05D-100           | 011-020-16-NMS       | 10M-91-01-148         |   |  |  |   |  |   |          | RECEIVED BY: (SKAWATURE)<br>  Land March Relaceding | RECEIVED BY: (SIGNATURE)     | RECEIVED FOR DISPOSAL BY:<br>(SIGNATURE) | -                               |
|                         | Æ            | RI/F       | et<br>ft       | COMP.            | X SW                     | XSN                  | m/X                   | · |  |  |   |  | · |          | OATE/TIME<br>                                       | DATE/TIME                    | DATE/TIME                                |                                 |
|                         | PROJECT NAME | BAAP RI    | 3              | TIME             | 1130                     | 1200                 | 0441                  |   |  |  |   |  |   |          |                                                     | : (SIGNATURE)                | ATURE)                                   | -                               |
|                         |              |            | INGTURE)       | DATE             | 18/6/                    | 1964                 | 19/0/61               |   |  |  | · |  |   |          |                                                     | D BY: (SIGA                  | ) BY: (SIGN                              |                                 |
|                         | PROJECT NO.  | 40-8589    | SAMPLERS (SIC) | STA. NO.         | SWN-91-05D+16 19/41 1130 | SWN-11-050 1964 1200 | LOM-91-61 19/94, 1440 |   |  |  |   |  |   |          | HELINOUISHED BY:                                    | RELINGUISHED BY              | RELINGUISHED BY: (SIGNATURE)             | OHAR                            |



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REPORTED HAS
MIKOSCIEWICZ HAS
C. WALKER
FILE 01-2.81

### MEMORANDUM

TO: Jeff Pickett

FROM: Laura J. O'Meara

DATE: October 22, 1991

SUBJ: Report of Analysis

Please find enclosed the Report of Analysis for the Badger Ammunition Plant samples received by the laboratory on October 16, 1991. This Report of Analysis is identified by the Reference Number: 12063. This cover memo is an integral part of the Report of Analysis.

If you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact me or Geoff Pellechia. We appreciate your continued use of ABB Environmental Services for your analytical needs and lock forward to working with you in the future.

dt

SWN-AI-OID

ABB ENVIRONMENTAL, INC. ANALYTICAL LABORATORY SERVICES 340 COUNTY ROAD NO. 5 F. O. BOX 720 WESTBROOK, ME 04092 (207)874-2400/FAX(207)775-4029

USATHANA EAUGER AMEINITION PLANT BARABOO WI 53913 REPORT OF ANALYSIS 10/22/91 REFERENCE MUMBER 12043 PAGE 1

| CLIEN<br>AB<br>DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | T SAMPLE ID B SAMPLE ID TE RECEIVED MPOUND LIST - VOL | 01D-926<br>01D-90<br>91289001<br>10/16/91 | ろいれータ<br>01B-110<br>91289002<br>10/16/91 | units                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------|------------------------------------------|--------------------------------------------------------------|
| CHLOROMETHANE BRONOMETHANE UNIVL CHLORIDE CHLOROETHANE HETHYLENE CHLORIDE ACETONE CARRON DISULFIDE 1,1-DICHLOROETHENE 1,1-DICHLOROETHENE CHLOROFORM 1,2-DICHLOROETHANE 2-BUTANONE 1,1,1-TRICHLOROETHANE 2-BUTANONE 1,1,1-TRICHLOROETHANE UNIVL ACETATE BROHODICHLOROMETHANE 1,1,2,2-TETRACHLOROETHANE 1,1,2,3-TETRACHLOROETHANE 1,1,2-TRICHLOROFROPENE TRANS-1,3-DICHLOROFROPENE TRICHLOROETHENE DIBROMOCHLOROMETHANE 1,1,2-TRICHLOROFROPENE BRONOFORM 2-HEXANONE 4-METHYL-2-PENTANONE TETRACHLOROETHENE TOLUENE CHLOROETHENE TOLUENE CHLOROETHENE TOLUENE STYRENE TOTAL XYLENES |                                                       | 100000505555555555555555555555555555555   | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 1667<br>1677<br>1677<br>1677<br>1677<br>1677<br>1677<br>1677 |
| TOLUENE-D8 P-BROMOFLUOROBENZENE 1,2-DICHLOROETHANE-D4 SIGNATURE RELEASED BY CLIENT AUTHORIZATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SUFROGATE RECOVE                                      | 101<br>94<br>106                          | 99<br>96<br>104                          | X<br>X                                                       |

ANALYTICAL METHOD INFORMATION

PARAMETER: TARGET COMPOUND LIST (TCL) VOLATILE ORGANICS

METHOD: 624/8240 MATRIX: AQUEOUS

| Compound                  | Practical Quantitation Limit (PQL) |
|---------------------------|------------------------------------|
|                           | (ug/L)                             |
| Chloromethane             | 10                                 |
| Bromomethane              | 10                                 |
| Vinyl Chloride            | 10                                 |
| Chloroethane              | 10                                 |
| Methylene Chloride        | 10                                 |
| Acetone                   | 15                                 |
| Carbon Disulfide          | 10                                 |
| 1,1-Dichloroethene        | 5                                  |
| 1,1-Dichloroethane        | 5                                  |
| 1,2-Dichloroethene        | 5                                  |
| Chloroform                | 5                                  |
| 1,2-Dichloroethane        | 5                                  |
| 2-Butanone                | 15                                 |
| 1,1,1-Trichloroethane     | 5                                  |
| Carbon Tetrachloride      | 5                                  |
| Vinyl Acetate             | 15                                 |
| Bromodichloromethane      | 5                                  |
| 1,1,2,2-Tetrachloroethane | 5                                  |
| 1,2-Dichloropropane       | 5                                  |
| trans-1,3-Dichloropropene | 5                                  |
| Trichloroethene           | 5                                  |
| Dibromochloromethane      | 5                                  |
| 1,1,2-Trichloroethane     | 5                                  |
| Benzene                   | 5                                  |
| cis-1,3-Dichloropropene   | 5                                  |
| Bromoform                 | 5                                  |
| 2-Hexanone                | 15                                 |
| 4-Methyl-2-Pentanone      | 15                                 |
| Tetrachloroethene         | 5                                  |
| Toluene                   | 5                                  |
| Chlorobenzene             | 5                                  |
| Ethylbenzene              | 5                                  |
| Styrene                   | 5                                  |
| Total Xylenes             | 5                                  |

PQL = Practical Quantitation Limit represents the normally obtainable measurement level achieved by the laboratory under practical and routine laboratory conditions for a variety of sample matrices.

Sample-specific reporting limits may vary from the standard PQL as a result of sample matrix and compound concentration.

# **METHOD REFERENCES**

### **EPA**

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020.

"Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA-600/4-82-057, July 1982, EMSL Cincinnati, Ohio 45268.

"Test Methods for Evaluating Solid Waste", EPA-SW-846, November 1986, Thir Edition, Office of Solid Waste and Emergency Response, Washington, DC, 20460.

"Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act", Federal Register Vol. 49, No. 209, October 26, 1984.

Federal Register Vol. 52, No. 13, January 21, 1987.

"Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Gource Water", Physical and Chemical Methods Branch, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268.

Caucus Organic and Inorganic Protocols, USEPA National Contract Laboratory Program.

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma Optical Emission Spectrometry" (EPA/EMSL/RTP,N.C.)—Approved for Use by EPA,EMSL,RTP,N.C., EQL-0380-045.

"Reference Method for the Determination of Particulate Matter as TSP in the Atmosphere", 40CFR Part 50 Appendix B.

"Reference Method for the Determination of Particulate Matter as PM-10 in the Atmosphere", 40CFR Part 50 Appendix J.

### SM

"Standard Methods for the Examination of Water and Wastewater", American Public Health Association, 16th Edition.

# Other

"Method of Soil Analysis; Chemical and Microbiological Properties", Part 2, American Society of Agronomy, C.A. Black, ed., 1965.

"Official Methods of Analysis of the Association of Official Analytical Chemists", Methods Manual, 14th ed., 1985.

| Mailing Adddre Purchase Order/Job Num Where to Send Report | ber  Directly to Client  ABB - Name | ssional      | Results Due Client I.D. No. (  Solid Waste    Data Docume Entered in Co Type of Sample List Any Hazard  Filtered in Fit Additional Infor Samples and  2.5 pah Prince No. | SPECIAL  SPECIAL  PROCEDURE  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Procedures  and or Special Proc |
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| Sample Identification                                      | T                                   | Date Sampled | Sampled By                                                                                                                                                               | Analyses Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| PROJECT NO.   PROJECT NAME   | NAME         |                                                                         |                                          |                   |          | ₩S.                          | SAMPLE TYPE |                          |
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CC: J. Buss 425

R. Fendleton 425

M. Kosciewicz 46-j

C. Warker

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#### MEMORANDUM

TO: Jeff Pickett

FROM: Laura J. O'Meara

DATE: October 24, 1991

SUBJ: Report of Analysis

Please find enclosed the Report of Analysis for the Badger Ammunition Plant samples received by the laboratory on October 18, 1991. This Report of Analysis is identified by the Reference Number: 12072. This cover memo is an integral part of the Report of Analysis.

If you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact me or Geoff Pellechia. We appreciate your continued use of ABB Environmental Services for your analytical needs and look forward to working with you in the future.

dt

LOM-91-01 (Tresalled well) ABB ENVIRGIMENTAL, INC. AMALYTICAL LABORATORY SERVICES 340 COUNTY ROAD F. O. BOX 720 NO. 5 WESTBROOK, ME 04092 (207)874-2409/FAX(207)775-4029

USATHAMA BADGER ANMUNITION PLANT BARABOO WI 53913

AFTER DEVOLOPMENT

REPORT OF ANALYSIS 10/23/91 REFERENCE NUMBER 12072 PAGE

CLIENT SAMPLE ID ABB SAMPLE ID LOM-91-91-01 91291015 DATE RECEIVED 10/18/91 UNITS TARGET COMPOUND LIST - VOLATILES CHLOROMETHANE UG/L 10 BROMOMETHANE 10 UG/L VINYL CHLORIDE 10 UG/L CHLOROETHANE 10 UG/L METHYLENE CHLORIDE 10 UG/L ACETONE 5055505855555555555555555555555555 UG/L CARBON DISULFIDE UG/L 1,1-DICHLORDETHENE UG/L 1,1-DICHLOROETHANE UG/L 1,2-DICHLOROETHENE UG/L CHLOROFORM 1,2-DICHLOROETHANE UG/L UG/L 2-BUTANONE UG/L 1,1,1-TRICHLOROETHANE UG/L CARBON TETRACHLORIDE VINTL ACETATE
BROMODICHLOROMETHANE
1,1,2,2-TETRACHLOROFTHANE
1,2-DICHLOROPROPANE
TRANS-1,3-DICHLOROPROPENE
TRICHLOROFTHENE UG/L UG/L UG/L UG/L UG/L UG/L UG/L DIBROHOCHLOROMETHANE UG/L 1,1,2-TRICHLOROETHANE UG/L BENZENE UG/L CIS-1,3-DICHLOROPROPENE BROMOFORM UG/L UG/L 2-HEXANONE UG/L 4-HETHYL-2-PENTANONE UG/L TETRACHLOROETHENE UG/L TOLUENE UG/L CHLOROBENZENE UG/L ETHYLBENZENE UG/L STYRENE UG/L TOTAL XYLENES UG/L **VOLATILE SURROGATE RECOVERY** TOLUENE-DE P-BROMOFLUOROBENZENE X 114 1,2-DICHLORDETHANE-D4 SIGNATURE RELEASED BY LAGRA J (P)

CLIENT AUTHORIZATION

| USATHAMA                | REPORT | YSIS | 10/23/91 |
|-------------------------|--------|------|----------|
| BADGER AMMUNITION PLANT | REFEL  | MBER | 12072    |
| BARABOO WI 53913        |        | PAGE | 2        |

- J = Indicates an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.
- B = Analyte was detected in the laboratory method blank analyzed concurrently with the samples.

For the Volatile Organic analysis: Acetone was detected in the method blank at 22 ug/L, and Chloroform was detected in the method blank at 1 J ug/L.

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| 20m-91-01 9129 | 1015 11 | 0-16-91                | v.m./N.K.  | 24/6305         |
|                |         | 2US                    |            |                 |

# ANALYTICAL METHOD INFORMATION

PARAMETER: TARGET COMPOUND LIST (TCL) VOLATILE ORGANICS

METHOD: 624/8240 MATRIX: AQUEOUS

| Compound                  | Practical Quantitation Limit (PQL) (ug/L) |
|---------------------------|-------------------------------------------|
| Chloromethane             | 10                                        |
| Bromomethane              | 10                                        |
| Vinyl Chloride            | 10                                        |
| Chloroethane              | 10                                        |
| Methylene Chloride        | 10                                        |
| Acetone                   | 15                                        |
| Carbon Disulfide          | 10                                        |
| 1,1-Dichloroethene        | 5                                         |
| 1,1-Dichloroethane        | 5                                         |
| 1,2-Dichloroethene        | 5                                         |
| Chloroform                | 5                                         |
| 1,2-Dichloroethane        | 5                                         |
| 2-Butanone                | 15                                        |
| 1,1,1-Trichloroethane     | 5                                         |
| Carbon Tetrachloride      | 5                                         |
| Vinyl Acetate             | 15                                        |
| Bromodichloromethane      | 5                                         |
| 1,1,2,2-Tetrachloroethane | 5                                         |
| 1,2-Dichloropropane       | 5                                         |
| trans-1,3-Dichloropropene | 5                                         |
| Trichloroethene           | 3                                         |
| Dibromochloromethane      | 5                                         |
| 1.1.2-Trichloroethane     | 5                                         |
| Benzene                   | 5                                         |
| cis-1,3-Dichloropropene   | 5                                         |
| Bromoform                 | 5                                         |
| 2-Hexanone                | 15                                        |
| 4-Methyl-2-Pentanone      | 15                                        |
| Tetrachloroethene         | 5                                         |
| Toluene                   | 3                                         |
| Chlorobenzene             | 5                                         |
| Ethylbenzene              | 5                                         |
| Styrene                   | 5                                         |
| Total Xylenes             | 5                                         |

PQL = Practical Quantitation Limit represents the normally obtainable measurement level achieved by the laboratory under practical and routine laboratory conditions for a variety of sample matrices.

Sample-specific reporting limits may vary from the standard PQL as a result of sample matrix and conspound concentration.

### **METHOD REFERENCES**

#### **EPA**

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020.

"Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA-600/4-82-057, July 1982, EMSL Cincinnati, Ohio 45268.

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"Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act", Federal Register Vol. 49, No. 209, October 26, 1984.

Federal Register Vol. 52, No. 13, January 21, 1987.

"Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", Physical and Chemical Methods Branch, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268.

Caucus Organic and Inorganic Protocols, USEPA National Contract Laboratory Program.

\*Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma Optical Emission Spectrometry\*(EPA/EMSL/RTP,N.C.)--Approved for Use by EPA,EMSL,RTP,N.C., EQL-0380-045.

"Reference Method for the Determination of Particulate Matter as TSP in the Atmosphere", 40CFR Part 50 Appendix B.

"Reference Method for the Determination of Particulate Matter as PM-10 in the Atmosphere", 40CFR Part 50 Appendix J.

### SM

"Standard Methods for the Examination of Water and Wastewater", American Public Health Association, 16th Edition.

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"Method of Soil Analysis; Chemical and Microbiological Properties", Part 2, American Society of Agronomy, C.A. Black, ed., 1965.

\*Official Methods of Analysis of the Association of Official Analytical Chemists\*, Methods Manual, 14th ed., 1985.



CC. Em Euso HP-5 Rod Bendleten HP-5 Manana Kosciewicz H Collem Walker HP-3

#### MEMORANDUM

TO: Jeff Pickett

Laura J. O'Meara

DATE: October 31, 1991

SUBJ: Report of Analysis

Please find enclosed the Reports of Analysis (ROA) for the Badger Ammunition Plant samples received by the laboratory on October 22 and 24, 1991. These Reports of Analysis are identified by the Reference Numbers: 12125 and 12126. Samples reported under the attached ROA and associated QC samples met ABB-ES internal quality control criteria except as noted on the ROA. This cover memo is an integral part of the ROA.

If you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact me or Geoff Pellechia. We appreciate your continued use of ABB Environmental Services for your analytical needs and look forward to working with you in the future.

dt

SWN-91-01B SWN-91-05B SWN-91-05C SWN-91-01C

ABE ENVIRCHMENTAL, INC. AMALYTICAL LABORATORY SERVICES 340 COUNTY ROAD MO. 5 P. O. BOX 720 WESTBROOK, ME 04092 (207)674-2400/FAX(207)775-4629

| USATHAMA<br>FAIGER ANAUNITION PLANT<br>BARABOD WI 53913                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nurth ALL OF                                                | o opatron                                                                       | Nagari, Se                                                                      | eport of analysis<br>reference number<br>page                | 10/31/91<br>12125<br>1 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------|
| CLIENT SAMPLE ID<br>ABB SAMPLE ID<br>DATE RECEIVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 91-01B<br>91295001<br>10/22/91                              | 91-05C<br>91295002<br>10/22/91                                                  | 91-05B<br>91295003<br>10/22/91                                                  | UNITS                                                        |                        |
| TARGET COMPOUND LIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - VOLATILES                                                 |                                                                                 |                                                                                 |                                                              |                        |
| CHLOROMETHANE BROMONETHANE VINYL CHLORIDE CHLOROETHANE METHYLENE CHLORIDE ACETONE ARBIN DISULFIDE 1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 2-PUTANONE 1,1-TRICHLOROETHANE 2-PUTANONE 1,1,1-TRICHLOROETHANE CARRON TETRACHLORIDE VINYL ACETATE BROMODICHLOROMETHANE 1,1,2,2-TETRACHLOROETHANE 1,1,2-TETRACHLOROETHANE 1,1,2-TRICHLOROFROPANE TRANS-1,3-DICHLOROFROPENE TRICHLOROETHENE DISROMOCHLOROMETHANE 1,1,2-TRICHLOROETHANE BROZENE CIS-1,3-DICHLOROPROPENE BROMOFORM 2-HEXANONE 4-METHYL-2-FENTANONE TETRACHLOROETHENE TOLUENE CHLOROENZENE ETHYLBENZENE STYRENE TOTAL XYLENES | 1001024055515855555555555555555555555555555555              | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 | UG/L<br>UG/L<br>UG/L<br>UG/L<br>UG/L<br>UG/L<br>UG/L<br>UG/L |                        |
| VOLATILE SURROGATE RE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | COVERY                                                      |                                                                                 |                                                                                 |                                                              |                        |
| TOLUENE-DE P-BROMOFLUGROPENZENE 1,2-DICHLGROETHANE-D4  SIGNATURE RELEASED BY CLIENT AUTHORIZATION 6853.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 101<br>91<br>101<br>(0) (0) (0) (0) (0) (0) (0) (0) (0) (0) | 101<br>93<br>103                                                                | 99<br>97<br>101                                                                 | X<br>X<br>X                                                  |                        |

| USATHAMA                | REPORT OF ANALYSIS | 10/31/91 |
|-------------------------|--------------------|----------|
| BADGER AMMUNITION PLANT | REFERENCE NUMBER   | 12125    |
| BARABOO WI 53913        | PAGE               | 2        |

- J = Indicates an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.
- B = Analyte was detected in the laboratory method blank analyzed concurrently with the samples.

For the Volatile Organic analysis of sample numbers 91295001-003: Methylene Chloride was detected in the method blank at 2 J ug/L, and Acetone was detected in the method blank at 7 J ug/L.

For the Volatile Organic analysis of sample number 91295001: Chloroform was detected in the method blank at 1 J ug/L.

| Sample Identification Lab Numbers Date Sampled Sampled By Analyses Required  SHIN-91- GIP 91275001 10-19.91 N. Raka/2 miller & VOA 684/625 122 | Client Information: Na Compa Mailing Adddre Purchase Order/Job Numi Where to Send Report   Analyses Requested By: Approved By: | me       | 7-1-1-12<br>31-1-12<br>5-111<br>12-04<br>F P. Croh | Results Due Client I.D. No.  Solid Waste I Data Docume Entered in Co Type of Sample List Any Hazard  Filtered in Fie Additional Infor | Data File Intation Regid SPECIAL PROCEDURE Sold Shon-Filtered mation or Special Procedures |
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| 511-91-05C 91295002 10.21.91 N.F.ská/V.milleral VOA 624/125 11/2.<br>5 UN-91-557 91295023 10.17 91 V. TEC WOR 624/                             |                                                                                                                                | T        | <del></del>                                        | <del></del>                                                                                                                           | Analyses Required                                                                          |
| 5. UN -91-557 9129-503 10-17 91 V. TEC NOR 624                                                                                                 |                                                                                                                                |          | <del></del>                                        |                                                                                                                                       |                                                                                            |
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| CALA?                        |            |              |       |              |                                             |                  |                              |                      |                                  |

ABB ENVIRONMENTAL, INC.
ANALYTICAL LABORATORY SERVICES
340 COUNTY ROAD NO. 5
F. D. BOX 720
WESTEROOK, NE 04092
(207)874-2406/FAX(207)775-4029

MAHTHAU Swil al of EALGER AMMUNITION FLANT EAFAECO WI 53913 CLIENT SAMPLE III 91-01C 91297017 DATE RECEIVED 10/24/91 UNITS TARGET COMPOUND LIST - VOLATILES CHLOROMETHANE BROMOMETHANE VINYL CHLORIDE UG/L 10 UG/L CHLOROETHANE 10 UGAL METHYLENE CHLORITE 10 24 10 5 UG/L ACETONE UG/L CARBON DISULFIDE 1.1-DICHLORDETHER UG/L UG/L 1,1-DICHLOROETHANE
1,2-DICHLOROETHENE
CHLOROFORN UG/L 1,2-DICHLOROETHANE ĴB ( UG/L 2-BUTANONE UG/L 1.1.1-TRICHLORDETHANE CARBON TETRACHLORIDE 355555555555555555555555555555 UG/L VINYL ACETATE
BROHODICHLOROMETHANE
1,1,2,2-TETRACHLOROETHANE
1,2-DICHLOROPROPANE
TDANG-1, Z-DYCH ORDEROGRAE UG/L UG/L UG/L TRANS-1,3-DICHLOROPROPENE TRICHLOROETHENE UG/L UG/L DIBROMOCHLOROHETHANE 1,1,2-TRICHLOROETHANE BENZENE UG/L UG/L UG/L CIS-1, 3-DICHLORDFROPENE EROMOFORM UG/L PRIMARY UNIT 2-HEXANONE 4-HETHYL-2-PENTANONE TETRACHLOROETHENE UGAL UG/L UG/L UG/L TOLUENE UG/L CHLOROPENZENE UG/L ETHYLBENZENE STYRENE UG/L TOTAL XYLENES UG/L VOLATILE SURROGATE RECOVERY TOLUENE-DS P-BROMOFLUOROBENZENE 1,2-DICHLOROETHANE-D4 SIGNATURE RELEASED BY AGUAG J. W. I LAUKA JOHEAKA 6853.04 CLIENT AUTHOFIZATION

REPORT OF ANALYSIS 10 REFERENCE NUMBER PAGE

| USATHAMA          |       |
|-------------------|-------|
| BADGER AMMUNITION | PLANT |
| BARABOO WI 53913  |       |

REFERENCE NUMBER 12126
PAGE 2

- J = Indicates an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.
- B = Analyte was detected in the laboratory method blank analyzed concurrently with the samples.

## For the Volatile Organic Analysis:

Methylene Chloride was detected in the method blank at 3 J ug/L.

Acetone was detected in the method blank at 7 J ug/L.

Chloroform was detected in the method blank at 1 J ug/L.

Toluene was detected in the method blank at 1 J ug/L.

Date Received 10 04 97
Lab Location PLACK NALYSIS REQUEST FORM 15.29.91 1200AL/11691 HA D Results Due Client I.D. No. 685304 USATHARAA Client Information: Solid Waste Data File BAFF Data Documentation Reg'd Company Entered in Computer 10196 Mailing Adddress 115 Route 12 Type of Sample UXXII SPECIAL List Any Hazards NUMP KNOUM 4)1 PROCEDURE Briabao Purchase Order/Job Number Non-Filtered ☑ Filtered in Field Additional Information or Special Procedures preserved u/ HCI Where to Send Report Directly to Client ABB - Name \_ OC LEVEL I Analyses Requested By: Technical Project Profession Project Profession Project Profession Project Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession Profession P Approved By: Project Manager Sample Identification **Lab Numbers Date Sampled** Sampled By **Analyses Required** SUN-91-01C 10.23.41 N. Roka/v. Millerku 91297017

ABB Environmental Services, Inc.

CAP 152411.

|                              | :                                                |                              | CHAIN OF CUSTODY RECORD                  | JSTC      | DY RE                         | COF        | 2           |                          | Page 1 of 1                      |
|------------------------------|--------------------------------------------------|------------------------------|------------------------------------------|-----------|-------------------------------|------------|-------------|--------------------------|----------------------------------|
| 8                            | PROJECT NAME                                     |                              |                                          |           |                               | SAMF       | SAMPLE TYPE |                          |                                  |
|                              | BAAP - USFITH HIMH                               | SFIIHF                       |                                          |           | r                             |            |             |                          | REMARKS                          |
| SAMPLERS (SIGNATURE)         | E. Roka                                          | ھر                           |                                          | ള & §     | Div le                        |            |             |                          | INDICATE<br>SOIL/WATER/AIR       |
| i                            | сомь                                             | 8745                         | STATION LOCATION                         | TAINERS   | и <b>О</b> Ъ                  |            |             |                          | EDIMENI/SLUDGE                   |
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# ANALYTICAL METHOD INFORMATION

PARAMETER: TARGET COMPOUND LIST (TCL) VOLATILE ORGANICS

METHOD: 624/8240 MATRIX: AQUEOUS

| Compound                  | Practical Quantitation Limit (PQL) |
|---------------------------|------------------------------------|
| •                         | (vg/L)                             |
| Chloromethane             | 10                                 |
| Bromomethane              | 10                                 |
| Vinyl Chloride            | 10                                 |
| Chloroethane              | 10                                 |
| Methylene Chloride        | 10                                 |
| Acetone                   | 15                                 |
| Carbon Disulfide          | 10                                 |
| 1,1-Dichloroethene        | 5                                  |
| 1,1-Dichloroethane        | 5                                  |
| 1,2-Dichloroethene        | 5                                  |
| Chloroform                | 5                                  |
| 1,2-Dichloroethane        | 5                                  |
| 2-Butanone                | . 15                               |
| 1,1,1-Trichloroethane     | 5                                  |
| Carbon Tetrachloride      | 5                                  |
| Vinyl Acetate             | 15                                 |
| Bromodichloromethane      | 5                                  |
| 1,1,2,2-Tetrachloroethane | 5                                  |
| 1,2-Dichloropropane       | 5                                  |
| trans-1,3-Dichloropropene | 5                                  |
| Trichloroethene           | 5                                  |
| Dibromochloromethane      | 5                                  |
| 1.1.2-Trichloroethane     | 5                                  |
| Beazene                   | 5                                  |
| cis-1,3-Dichloropropene   | 5                                  |
| Bromoform                 | 5                                  |
| 2-Hexanone                | 15                                 |
| 4-Methyl-2-Pentanone      | 15                                 |
| Tetrachloroethene         | 5                                  |
| Toluene                   | 5                                  |
| Chiorobenzene             | 5                                  |
| Ethylbenzene              | 5                                  |
| Styrene                   | 3                                  |
| Total Xylenes             | 5                                  |

PQL = Practical Quantitation Limit represents the normally obtainable measurement level achieved by the laboratory under practical and routine laboratory conditions for a variety of sample matrices.

Sample-specific reporting limits may vary from the standard PQL as a result of sample matrix and compound concentration.

## **METHOD REFERENCES**

## **EPA**

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020.

"Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA-600/4-82-057, July 1982, EMSL Cincinnati, Ohio 45268.

"Test Methods for Evaluating Solid Waste", EPA-SW-846, November 1986, Third Edition, Office of Solid Waste and Emergency Response, Washington, DC, 20460.

"Guidelines Establishing Test Procedures for the Analysis of Pollutants
Under the Clean Water Act", Federal Register Vol. 49, No. 209, October 26, 1984.

Federal Register Vol. 52, No. 13, January 21, 1987.

"Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", Physical and Chemical Methods Branch, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268.

Caucus Organic and Inorganic Protocols, USEPA National Contract Laboratory Program.

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma Optical Emission Spectrometry" (EPA/EMSL/RTP,N.C.)—Approved for Use by EPA,EMSL,RTP,N.C., EQL-0380-045.

"Reference Method for the Determination of Particulate Matter as TSP in the Atmosphere", 40CFR Part 50 Appendix B.

"Reference Method for the Determination of Particulate Matter as PM-10 in the Atmosphere", 40CFR Part 50 Appendix J.

# SM

"Standard Methods for the Examination of Water and Wastewater", American Public Health Association, 16th Edition.

## Other

"Method of Soil Analysis; Chemical and Microbiological Properties", Part 2, American Society of Agronomy, C.A. Black, ed., 1965.

"Official Methods of Analysis of the Association of Official Analytical Chemists", Methods Manual, 14th ed., 1985.



Men Amer Korcius -Caller Walker 42 2 File 01-2.81

## MEMORANDUM

TO: Jeff Pickett

FROM: Laura J. O'Meara

DATE: November 7, 1991

SUBJ: Report of Analysis

Please find enclosed the Report of Analysis (ROA) for the Badger Ammunition Plant samples received by the laboratory on October 29, 1991. This Report of Analysis is identified by the Reference Number: 12159. Samples reported under the attached ROA and associated QC samples met ABB-ES internal quality control criteria except as noted on the ROA. This cover memo is an integral part of the ROA.

If you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact me or Geoff Pellechia. We appreciate your continued use of ABB Environmental Services for your analytical needs and look forward to working with you in the future.

dt

SWN-91-01D PBN-91-03B PBM-90-03D SEE EMVIRENMENTAL, INC. WALFITCAL LABORATORY SERVICES SAU COUNTY ROAD NO. 5 F. J. BOX 720 WESTEROON, ME 04092 (207)874-1460/FAX(207)775-4029

USATHSHA BACGET AMMUNITION PLANT BARAEGO WI 53913 REPORT OF ANALYSIS 11/06/91 REFERENCE NUMBER 12159 PAGE 1

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SWN-91-01D                              | PBN-91-03B                            | PBM-90-03D                                     |                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------|------------------------------------------------|------------------------------------------------------------------------------|
| CLIENT SAMPLE ID<br>ABB SAMPLE ID<br>DATE RECEIVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 35491018<br>91302001<br>10/29/91        | PBN9103B<br>91302002<br>10/29/91      | P8H7003D<br>91302003<br>10/29/91               | UNITS                                                                        |
| TARGET COMPOUND LIST - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | VOLATILES                               |                                       |                                                |                                                                              |
| SALGROBETHAME SROMOMETHAME VINYL CHLORIDE CHLOROSTHAME METHYLSNE CHLORIDE ACSTOME GARBON DISULFIDE 1.1-DICHLOROSTHEME 1.2-DICHLOROSTHEME 1.2-DICHLOROSTHEME CHLOROFORM 1.3-DICHLOROSTHAME 2-BUTAMONE 1.1.1-TRICHLOROSTHAME CARBON TETRACHLORIDE VINYL ACSTATE BROWNOBICHLOROMETHAME 1.2-DICHLOROFROPANE TRANS-1,3-DICHLOROFROPENE TRANS-1,3-DICHLOROFROPENE TRICHLOROSTHEME DISROMOCHLOROMETHAME 1,1.3-TRICHLOROSTHAME SENZENE CIS-1,3-DICHLOROPROPENE SENZENE CIS-1,3-DICHLOROFROPENE SENZENE CIS-1,3-DICHLOROFROPENE SENZENE CIS-1,3-DICHLOROFROPENE SENZENE CIS-1,3-DICHLOROFROPENE SENZENE CHLOROSENZENE STYRENE TOLUENE CHLOROBENZENE STYRENE TOTAL Y/LENES | 200011112555555555555555555555555555555 | สสสสสสสสสสสสสสสสสสสสสสสสสสสสสสสสสสสสส | 1100017-05555585555555555555555555555555555555 | \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ |
| VOLATILE SURROGATE RECON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ERY (                                   |                                       |                                                |                                                                              |
| TOLUENE-D8 5-BROMOFLUGROBENZENE 1.2-BICHLORGETHANE-D4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 99 104<br>104                           | 97<br>103<br>106                      | 97<br>105<br>106                               | ****                                                                         |
| SIGNATURE CAUSA JUNEAR CLIENT AUTHORIZATION 6853-04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | /Mara                                   |                                       |                                                |                                                                              |

USATHAMA
BADGER AMMUNITION PLANT
BARABOO WI 53913

REPORT OF ANALYSIS REFERENCE NUMBER

PAGE

11/06/91 12159

- J = Indicates an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.
- B = Analyte was detected in the laboratory method blank analyzed concurrently with the samples.

For the Volatile Organic analysis of sample number 91302001: Methylene Chloride was detected in the method blank at 3 J ug/L, and Acetone was detected in the method blank at 6 J ug/L.

For the Volatile Organic analysis of sample number 91302002: Acetone was detected in the method blank at 6 J ug/L.

For the Volatile Organic analysis of sample number 91302003: Acetone was detected in the method blank at 9 J ug/L, and 2-Butanone was detected in the method blank at 4 J ug/L.

# ANALYTICAL METHOD INFORMATION

PARAMETER: TARGET COMPOUND LIST (TCL) VOLATILE ORGANICS

METHOD: 624/8240 MATRIX: AQUEOUS

| Compound                  | Practical Quantitation Limit (PQL) |
|---------------------------|------------------------------------|
| _                         | (ug/L)                             |
| Chloromethane             | 10                                 |
| Bromomethane              | 10                                 |
| Vinyl Chloride            | 10                                 |
| Chloroethane              | 10                                 |
| Methylene Chloride        | 10                                 |
| Acetone                   | 15                                 |
| Carbon Disulfide          | 10                                 |
| 1,1-Dichloroethene        | 5                                  |
| 1,1-Dichloroethane        | 5                                  |
| 1,2-Dichloroethene        | 5                                  |
| Chloroform                | 5                                  |
| 1,2-Dichloroethane        | 5                                  |
| 2-Butanone                | 15                                 |
| 1,1,1-Trichloroethane     | 5                                  |
| Carbon Tetrachloride      | 5                                  |
| Vinyl Acetate             | 15                                 |
| Bromodichloromethane      | 5                                  |
| 1,1,2,2-Tetrachloroethane | 5                                  |
| 1,2-Dichloropropane       | 5                                  |
| trans-1,3-Dichloropropene | 5                                  |
| Trichloroethene           | 5                                  |
| Dibromochloromethane      | 5                                  |
| 1,1,2-Trichloroethane     | 5                                  |
| Benzene                   | 5                                  |
| cis-1,3-Dichloropropene   | 5                                  |
| Bromoform                 | 5                                  |
| 2-Hexanone                | 15                                 |
| 4-Methyl-2-Pentanone      | 15                                 |
| Tetrachloroethene         | 5                                  |
| Toluene                   | 5                                  |
| Chiorobenzene             | 5                                  |
| Ethylbenzene              | 5                                  |
| Styrene                   | 5                                  |
| Total Xylenes             | 5                                  |

PQL = Practical Quantitation Limit represents the normally obtainable measurement level achieved by the laboratory under practical and routine laboratory conditions for a variety of sample matrices.

Sample-specific reporting limits may vary from the standard PQL as a result of sample matrix and compound concentration.

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"Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act", Federal Register Vol. 49, No. 209, October 26, 1984.

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Caucus Organic and Inorganic Protocols, USEPA National Contract Laboratory Program.

\*Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma Optical Emission Spectrometry\*(EPA/EMSL/RTP,N.C.)—Approved for Use by EPA,EMSL,RTP,N.C., EQL-0380-045.

"Reference Method for the Determination of Particulate Matter as TSP in the Atmosphere", 40CFR Part 50 Appendix B.

"Reference Method for the Determination of Particulate Matter as PM-10 in the Atmosphere", 40CFR Part 50 Appendix J.

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"Official Methods of Analysis of the Association of Official Analytical Chemists", Methods Manual, 14th ed., 1985.

| Page Lot                |              | REMARKS    | INDICATE             | SEDIMENTSLODGE   | Nater       |                    | <u> </u>             |                   |   |  |  |  |  |  | RECEIVED BY: (SIGNATURE)     | RECEIVED BY: (SIGNATURE)     |                                       |              |
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|                         |              |            | 4                    | BARD             | 15 X        | ld X               | 平文                   | 10                |   |  |  |  |  |  | MATERIANE<br>MAY/1/600       | DATE/TIME                    | DATE/TIME                             | <del>-</del> |
|                         | PROJECT NAME | 2AA!       |                      | COMP             | 1730        | 145                | 500                  |                   |   |  |  |  |  |  | 3/                           |                              | <del>-</del>                          | -            |
|                         |              | 112        |                      |                  | 19241       | 182411             | 18/23/61             |                   |   |  |  |  |  |  | C TA                         | ED BY: (SIGNATURE)           | BY: (SIGNA)                           |              |
|                         | PROJECT NO.  | 1.0.CC 200 | SAMPLEHS (SIGNATURE) | STA. NO.         | SWN96D 1941 | PBN 163B 1840 1145 | PBN 7103D 1979, 1500 |                   |   |  |  |  |  |  | A Les                        | RELINGOISHED                 | RELINGUISHED BY: (SKGNATURE)          |              |

| ANALYSIS REQUEST FORM    Date   Proceedings   Proceedings   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Procedure   Proced |                                       |                    |                                         |                    |                                         |
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| Client Information: Name USATHAMA  Company ABR-ES  Mailing Addcress 26   Commercial St. Portland, ME 04/01  Purchase Order/Job Number 6853-04  Where to Send Repon   Directly to Client ABB - Name Jeff Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Projec | ANAL YSIS                             | REQUE              | ST FOR                                  | M Date Received    | 10.29.91                                |
| Client Information: Name  Company  ABR-ES  Mailing Addcress  ABR-ES  Mailing Addcress  ABR-ES  Mailing Addcress  ABR-ES  Mailing Addcress  ABR-ES  Mailing Addcress  ABR-ES  Mailing Addcress  ABR-ES  Mailing Addcress  ABR-ES  Data Documentation Rec'd  Entered in Computer  Type of Sample  Watty  Type of Sample  Definition Information or Special Procedures  Filtered in Field  ANON-Filtered Additional Information or Special Procedures  Fach Vint preserve With Joya  HOL  Analyses Requested By: Technical Project Professional  Approved By: Project Manager  Sample Identification  Lab Numbers  Date Sampled  Sampled By  Analyses Required  SNN9101D  91302001  10/26/41  R.P. /L.C.  TOL VOA 624/235-291  PBM9103D  91302003  10/27/91  B. C. /L. C.  (God 10244)  Particular Project Coll (Rod Roden)  Client I.D. No. (685204)  Data Data File  Data Documentation Rec'd  Entered in Field  ANDI-Filtered in Field  ANDI-Filtered in Field  ANDI-Filtered in Field  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Special Procedures  Fach Vint preserve With Joya  Additional Information or Spec |                                       | dor                | 0 0                                     | Results Due        | 10.31.91 VEPBAL /11.15. 91 HEROCOI      |
| Solid Waste Data File   Data Documentation Rec'd   Entered in Computer   Type of Sample   Water   SPECIAL   PROCEDURE   SPECIAL   Stany Hazards   PROCEDURE   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIAL   SPECIA   | Client Information: Na                | - USATHI           | AMA                                     | Client I.D. No.    | 1085304                                 |
| Mailing Addcress 26   Commercial St.  Portary MF 04101  Purchase Order/Job Number 6852-04  Where to Send Report   Directly to Client   Tickett    Analyses Requested By:   Project Professional   Approved By:   Project Manager    Sample Identification   Lab Numbers   Date Sampled   Sampled By   Analyses Required    SNN9101D   91302001   10/24/91   R.P./L.C.   TCL VOA 624/625   PROCEDURE    PROCEDURE   Type of Sample   Water   Special Procedures   PROCEDURE      Continue of Sample   Water   Special Procedures   PROCEDURE      Continue of Sample   Water   Special Procedures     Continue of Sample   Manager   PROCEDURE      Continue of Sample   Water   Special Procedures     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Water   Special Procedures     Continue of Sample   Water   Special Procedures     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   Manager   PROCEDURE     Continue of Sample   PROCEDURE     Continue of Sample   PROCEDURE     Continue of Sample   PROCEDURE     Continue of Sample   PROCEDURE     Continue of Sample   PROCEDURE     Continue of Sample   PROCEDURE     Continue of Sample   PROCEDURE     Continue of Sample   PROCEDURE     Continue of Sample   PROCEDURE     Con |                                       |                    |                                         |                    |                                         |
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| Where to Send Report Directly to Client  ABB - Name  Prod Pends for HP-2  Analyses Requested By:  Technical Project Professional  Approved By:  Project Manager  Sample Identification  Lab Numbers  Date Sampled  Sampled By  Analyses Required  SNN9101D  91302001  PBN9103B * 91302002  10/27/91  R.P./L.C.  TCL VOA 624/C35***291  PBN9103B * 91302003  10/27/91  B.C./L.C.  (GDP 102441 22 deat call Rod 2 deats)  SNN9101 D. God 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats call Rod 2 deats  | Purchase Order/Job Numi               | ber <u>6853</u>    | -04                                     | B.                 | •                                       |
| Analyses Requested By:    Property   Project Professional   Project Professional     Approved By:   Project Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Where to Sond Boost                   | Discoult on Oliver |                                         |                    |                                         |
| Analyses Requested By: Project Project Professional  Approved By: Project Manager  Sample Identification Lab Numbers Date Sampled Sampled By Analyses Required  SNN9101D 91302001 10/26/91 R.P./L.C. 7CL VOA 624/C25 2021  PBN9103R 4 91302002 10/27/91 R.P./L.C.  PBN903D 91302003 10/27/91 B. C./L.C.  (God 102461 Par deat call God Parallely)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Where to Send Aepon                   | ABB - Name         | Rf Pickett                              | Ha                 |                                         |
| Sample Identification   Lab Numbers   Date Sampled   Sampled By   Analyses Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Analyses Requested By:                | Rod Pen            | lefor HP.                               | Z QC               |                                         |
| Sample Identification Lab Numbers Date Sampled By Analyses Required  SNN9101D 91302001 10/26/91 R.P./L.C. 7CL VOA 624/625-2011  PBN9103R * 91302002 10/27/91 R.P./L.C.  PBM9103D 91302003 10/27/91 B.C./L.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |                    | sional                                  | * PBN91031         | 5 - 2 of 3 vials have air bubble        |
| SNN9101D 91302001 10/26/91 R.P./L.C. TCL VOA 624/625-2011 PBN9103B + 91302002 10/27/91 R.P./L.C. PBM9103D 91302003 10/27/91 B.C./L.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Approved By:                          | Project Manager    | <del></del>                             |                    |                                         |
| PBN9103B + 91302002 10/27/91 R.P./L.C.  PBM9103D 91302003 10/27/91 B.C./L.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sample Identification                 | Lab Numbers        | Date Sampled                            | Sampled By         | Analyses Required                       |
| PBM903D 91302003 10/27/91 B.C./L.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SWNGIDID                              | 91302001           | 10/26/41                                | R.P. /L.C.         | TCL VOA 624/625 371                     |
| (GDR 10289) se dent call Rod Bendeton)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PBN91038 *                            | 91302002           | 10/27/91                                | R.P./L.C.          |                                         |
| (GDE 103461, per deat call God Bodelon) Changed 5:16:10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PBM9003D                              | 91302003           | 10/27/91                                | B. C. /L. C.       | V                                       |
| charged size id.)  DUSI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ( GOR 102991 per di                   | ent call Rod B     | Melon)                                  |                    |                                         |
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| RUSH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |                    |                                         |                    | *************************************** |
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CC: Jin Bras HP-5
Rod Pendleton HP-5
May anne Kosciewicz HP-4
Colleen Walker HP-3
Pile 01-2.81

MEMORANDUM

TO: Jeff Pickett

FROM: Laura J. O'Meara

DATE: November 6, 1991

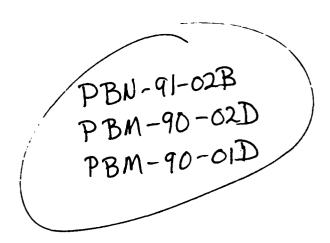
SUBJ: Report of Analysis

Coff of April

Please find enclosed the Report of Analysis (ROA) for the Badger Ammunition Plant samples received by the laboratory on October 30, 1991. This Report of Analysis is identified by the Reference Number: 12151. Samples reported under the attached ROA and associated QC samples met ABB-ES internal quality control criteria except as noted on the ROA. This cover memo is an integral part of the ROA.

If you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact me or Geoff Pellechia. We appreciate your continued use of ABB Environmental Services for your analytical needs and look forward to working with you in the future.

đt



ABE ENVIRONMENTAL, INC.
AMALYTICAL LABORATORY SERVICES
340 COUNTY ROAD NO. 5
F. 0. BOX 720
WESTERDON, ME 04092
(207)874-2400/FAX(207)773-4029

| USATHMAP                                                                                                                                                       |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| CHLOROMETHANE  BROMOMETHANE  ( 10 ( 10 ( 10 UG/L                                                                                                               |  |
| ## BRONOMETHANE   VINYL CHLORIDE   10                                                                                                                          |  |
| BROMODICHLOROMETHANE                                                                                                                                           |  |
| VOLATILE SURROGATE RECOVERY                                                                                                                                    |  |
| TOLUENE-DB 96 97 98 X P-BROMOFLUGROBENZENE 97 97 104 X 1,2-DICHLOROBETHANE-D4 100 99 104 X  SIGNATURE RELEASED RY LAURA J O'MEARA CLIENT AUTHORIZATION 6853-04 |  |

USATHAMA
BADGER AMMUNITION PLANT
BARABOO WI 53913

REPORT OF ANALYSIS REFERENCE NUMBER PAGE 11/05/91 12151 2

- J = Indicates an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.
- B = Analyte was detected in the laboratory method blank analyzed concurrently with the samples.

For the Volatile Organic analysis of sample numbers 91303001-003: Methylene Chloride was detected in the method blank at 3 J ug/L, and Acetone was detected in the method blank at 9 J ug/L.

For the Volatile Organic analysis of sample numbers 91303001-003: 2-Butanone was detected in the method blank at 4 J ug/L, and Toluene was detected in the method blank at 1 J ug/L.

## ANALYTICAL METHOD INFORMATION

PARAMETER: TARGET COMPOUND LIST (TCL) VOLATILE ORGANICS

METHOD: 624/8240 MATRIX: AQUEOUS

| Compound                  | Practical Quantitation Limit (PQL) |
|---------------------------|------------------------------------|
|                           | (ug/L)                             |
| Chloromethane             | 10                                 |
| Bromomethane              | 10                                 |
| Vinyl Chloride            | 10                                 |
| Chloroethane              | 10                                 |
| Methylene Chloride        | 10                                 |
| Acetone                   | 15                                 |
| Carbon Disulfide          | 10                                 |
| 1,1-Dichloroethene        | 5                                  |
| 1,1-Dichloroethane        | 5                                  |
| 1,2-Dichloroethene        | 5                                  |
| Chloroform                | 5                                  |
| 1,2-Dichloroethane        | 5                                  |
| 2-Butanone                | 15                                 |
| 1,1,1-Trichloroethane     | \$                                 |
| Carbon Tetrachloride      | 5                                  |
| Vinyl Acetate             | 15 .                               |
| Bromodichloromethane      | 5                                  |
| 1,1,2,2-Tetrachloroethene | 5                                  |
| 1,2-Dichloropropene       | 5                                  |
| trans-1,3-Dichloropropene | 5                                  |
| Trichloroethene           | 5                                  |
| Dibromochloromethane      | 5                                  |
| 1,1,2-Trichloroethane     | 5                                  |
| Benzene                   | 5                                  |
| cis-1,3-Dichloropropene   | 5                                  |
| Bromoform                 | 5                                  |
| 2-Hexanone                | 15                                 |
| 4-Methyl-2-Pentanone      | 15                                 |
| Tetrachioroethene         | 5                                  |
| Toluene                   | 5                                  |
| Chlorobenzene             | 5                                  |
| Ethylbenzene              | 5                                  |
| Styrene                   | 5                                  |
| Total Xylenes             | 5                                  |

PQL = Practical Quantitation Limit represents the normally obtainable measurement level achieved by the laboratory under practical and routine laboratory conditions for a variety of sample matrices.

Sample-specific reporting limits may vary from the standard PQL as a result of sample matrix and compound concentration.

## **METHOD REFERENCES**

### EPA

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020.

"Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA-600/4-82-057, July 1982, EMSL Cincinnati, Ohio 45268.

"Test Methods for Evaluating Solid Waste", EPA-SW-846, November 1986, Third Edition, Office of Solid Waste and Emergency Response, Washington, DC, 20460.

"Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act", Federal Register Vol. 49, No. 209, October 26, 1984.

Federal Register Vol. 52, No. 13, January 21, 1987.

"Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", Physical and Chemical Methods Branch, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268.

Caucus Organic and Inorganic Protocols, USEPA National Contract Laboratory Program.

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma Optical Emission Spectrometry" (EPA/EMSL/RTP, N.C.)—Approved for Use by EPA, EMSL, RTP, N.C., EQL-0380-045.

"Reference Method for the Determination of Particulate Matter as TSP in the Atmosphere", 40CFR Part 50 Appendix B.

"Reference Method for the Determination of Particulate Matter as PM-10 in the Atmosphere", 40CFR Part 50 Appendix J.

# SM

\*Standard Methods for the Examination of Water and Wastewater\*, American Public Health Association, 16th Edition.

# Other

"Method of Soil Analysis; Chemical and Microbiological Properties", Part 2, American Society of Agronomy, C.A. Black, ed., 1965.

"Official Methods of Analysis of the Association of Official Analytical Chemists", Methods Manual, 14th ed., 1985.

| Compa Mailing Adddre  Purchase Order/Job Numl  Where to Send Report | me USATHAM  any ARR-E  ess 261 Const  PERTLAND  ber 6853-  Directly to Client  ABB - Name JEF  Roll Project Project | nA-<br>S<br>MERCIAL S<br>,ME OHIO<br>- OH<br>F PICKETT | Results Due Client I.D. No. Solid Waste I Data Docume Entered in Co Type of Sample List Any Hazard Filtered in Fie Additional Infor | Data File entation Req'd properties of the procedures and the procedures are procedures and the procedures and the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the procedures are presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by the presented by th |
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| PBN-91-02B                                                          | 91303001                                                                                                            | 10/28/91                                               |                                                                                                                                     | WVOA 624/625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PBM-90-02D<br>PBM-90-01D                                            | 91303002                                                                                                            | 10/28/91                                               | W.Child:/L.Gr                                                                                                                       | 167 624 625 550<br>16 VOA 624 1625 550                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| 7-10-7-00-d             |              | REMARKS  | INDICATE<br>SOILWATERVAIR | SEDIMENT/SLUDGE  | WATER       | <b> </b>  | Mater          |   |      |  |  |  |          |  | RECEIVED BY: (SIGNATURE)                     | RECEIVED BY: (SKRINATURE)    |                                          |
|-------------------------|--------------|----------|---------------------------|------------------|-------------|-----------|----------------|---|------|--|--|--|----------|--|----------------------------------------------|------------------------------|------------------------------------------|
|                         |              |          |                           |                  |             |           |                |   |      |  |  |  |          |  |                                              |                              |                                          |
| SRD                     | SAMPLE TYPE  |          |                           |                  |             |           |                |   |      |  |  |  |          |  | <b> </b>                                     | DATE/TIME                    |                                          |
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-ABB Environmental Services, Inc.-



CC: Juin Buss HP-5

Rad Fendleton HP-5

May anne Koseiewicz HP-4

Colleen Wollen HP-3

File 01-2.81

MEMORANDUM

TO: Jeff Pickett

FROM: Laura J. O'Meara

DATE: November 19, 1991

SUBJ: Report of Analysis

SWN-91-05D SWN-91-03B SWN-91-03D SWN-91-03C

Please find enclosed the Reports of Analysis (ROA) for the Badger Army Ammunition Plant samples received by the laboratory on October 31, November 8, and 12, 1991. These Reports of Analysis are identified by the Reference Numbers: 12200, 12199, and 12201. Samples reported under the attached ROA and associated QC samples met ABB-ES internal quality control criteria except as noted on the ROA. This cover memo is an integral part of the ROA.

If you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact me or Geoff Pellechia. We appreciate your continued use of ABB Environmental Services for your analytical needs and look forward to working with you in the future.

dt

ABE ENVIRONMENTAL, INC.
ANALYTICAL LABORATORY SERVICES
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MESTBROOK, ME 04092
(207)874-2400/FAX(207)775-4029

USATHAMA BADGER AMPLINITION PLANT FARABOO WI 53913 REPORT OF ANALYSIS 11/18/91 REFERENCE NUMBER 12199 PAGE 1

| CLIENT SAMPLE ID ABB SAMPLE ID DATE RECEIVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SWN-91-05D<br>SWN9105D<br>91312002<br>11/08/91      | SWN-91-038<br>SWN9103B<br>91312003<br>11/08/91 | SWN-91-03D<br>SUN9103D<br>91312004<br>11/08/91                                                     | UNITS                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------|
| TARGET COMPOUND LIST -  CHLOROMETHANE BROMOMETHANE UNIVL CHLORIDE CHLOROETHANE METHYLENE CHLORIDE ACETONE CARRON DISULFIDE 1.1-DISCHLOROETHANE 1.2-DISCHLOROETHANE 1.2-DISCHLOROETHANE 2-BUTANONE 1.1-TRICHLOROETHANE CARBON TETRACHLORIDE VINYL ACETATE EROMODICHLOROMETHANE 1.1.2-TETRACHLOROETHANE 1.1.2-TETRACHLOROETHANE 1.1.2-TETRACHLOROETHANE 1.1.2-TETRACHLOROFROPENE TRANS-1.3-DICHLOROPROPENE TRICHLOROETHENE DIBROMOCHLOROMETHANE 1.1.2-TRICHLOROFROPENE TRICHLOROETHENE CIS-1.3-DICHLOROFROPENE REMOMETHANE 1.1.2-TRICHLOROFROPENE REMOMETHANE 1.1.2-TRICHLOROFROPENE REMOMETHANE 2-METHYL-2-PENTAMONE | VOLATILES  10 10 10 10 10 10 10 10 10 10 10 10 10 1 | ( 10 ( 10 ( 10 ( 10 ( 10 ( 10 ( 10 ( 10        | 10<br>10<br>10<br>10<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15 | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| TETRACHLOROETHENE TOLLENE CHLOROTENZENE ETHYLBENZENE ETYRENE TOTAL YYLENES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | , -                                                 | 5555555                                        | 15<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5                                          | 16/L<br>16/L<br>16/L<br>16/L            |
| VOLATILE SURROGATE RECO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 102<br>106<br>106<br><b>O'Mea</b> sa                | 100<br>102<br>108                              | 104<br>100<br>114                                                                                  | X<br>X                                  |

ABB Environmental Services, Inc. Analytical Laboratory Westbrook, Maine

#### ANALYTICAL METHOD INFORMATION

PARAMETER: TARGET COMPOUND LIST (TCL) VOLATILE ORGANICS

METHOD: 624/8240 MATRIX: AQUEOUS

| Compound                  | Practical Quantitation Limit (PQL) |
|---------------------------|------------------------------------|
| Compound                  | (ug/L)                             |
| Chloromethane             | 10                                 |
| Bromomethane              | 10                                 |
| Visyl Chloride            | 10                                 |
| Chloroethane              | 10                                 |
| Methylene Chloride        | 10                                 |
| Acetone                   | 15                                 |
| Carbon Disulfide          | 10                                 |
| 1,1-Dichloroethene        | 5                                  |
| 1,1-Dichloroethane        | 5                                  |
| 1,2-Dichloroethens        | 5                                  |
| Chloraform                | 5                                  |
| 1,2-Dichlorosthane        | 5                                  |
| 2-Butanone                | 15                                 |
| 1,1,1-Trichloroethane     | 5                                  |
| Carbos Tetrachloride      | 5                                  |
| Vinyl Acetate             | 15                                 |
| Bromodichloromethene      | 5                                  |
| 1,1,2,2-Tetrachloroethane | 5                                  |
| 1,2-Dichloropropane       | 5                                  |
| trans-1,3-Dichloropropene | 5                                  |
| Trichloroethene           | 5                                  |
| Dibromochloromethane      | 5                                  |
| 1,1,2-Trichloroethane     | 5                                  |
| Benzene                   | 5                                  |
| cis-1,3-Dichloropropene   | 5                                  |
| Bromoform                 | 5                                  |
| 2-Нехавове                | 15                                 |
| 4-Methyi-2-Pentanone      | 15                                 |
| Tetrachloroetheae         | 5                                  |
| Toluene                   | 5                                  |
| Chlorobenzene             | 5                                  |
| Ethylbenzene              | 5                                  |
| Styrens                   | 5                                  |
| Total Xylenes             | 5                                  |

PQL = Practical Quantization Limit represents the normally obtainable measurement level achieved by the laboratory under practical and routine laboratory conditions for a variety of sample matrices.

Sample-specific reporting limits may vary from the standard PQL as a result of sample matrix and compound concentration.

#### ABB Environmental Services, Inc. Analytical Laboratory Westbrook, Maine

#### **METHOD REFERENCES**

#### **EPA**

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020.

"Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA-600/4-82-057, July 1982, EMSL Cincinnati, Ohio 45268.

"Test Methods for Evaluating Solid Waste", EPA-SW-846, November 1986, Third Edition, Office of Solid Waste and Emergency Response, Washington, DC, 20460.

"Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act", Federal Register Vol. 49, No. 209, October 26, 1984.

Federal Register Vol. 52, No. 13, January 21, 1987.

"Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", Physical and Chemical Methods Branch, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268.

Caucus Organic and Inorganic Protocols, USEPA National Contract Laboratory Program. .

\*Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma Optical Emission Spectrometry\*(EPA/EMSL/RTP,N.C.)—Approved for Use by EPA,EMSL,RTP,N.C., EOL-0380-045.

"Reference Method for the Determination of Particulate Matter as TSP in the Atmosphere", 40CFR Part 50 Appendix B.

"Reference Method for the Determination of Particulate Matter as PM-10 in the Atmosphere", 40CFR Part 50 Appendix J.

#### SM

"Standard Methods for the Examination of Water and Wastewater", American Public Health Association, 16th Edition.

#### Other

"Method of Soil Analysis; Chemical and Microbiological Properties", Part 2, American Society of Agronomy, C.A. Black, ed., 1965.

"Official Methods of Analysis of the Association of Official Analytical Chemists", Methods Manual, 14th ed., 1985.

| ANALYSIS  Compa  Mailing Adddre  Purchase Order/Job Numb  Where to Send Report   Analyses Requested By:  Approved By: | ne USPTHE ny PAPP iss 11.5 Ro Born 170 per 06853  Directly to Client ABB - Name 19 No ocu echnical Project Projes | muta 12<br>n. WI<br>. Def 03<br>car. Word | Results Due Client I.D. No. Solid Waste D Data Docume Elentered in Co Type of Sample List Any Hazards Filtered in Fie Additional Inform | ntation Reg'd mputer // / > SPECIAL PROCEDURE |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Sample Identification                                                                                                 | Lab Numbers                                                                                                       | Date Sampled                              | Sampled By                                                                                                                              | Analyses Required                             |
| SWN-91-03D<br>SWN-91-03B#1)                                                                                           | 91312007<br>91312004                                                                                              | 11.6.91                                   | L. Carter/P. Ouen                                                                                                                       |                                               |
|                                                                                                                       | L                                                                                                                 |                                           | F_M<br>Grd                                                                                                                              | op¹ no Ciji                                   |

ABB Environmental Services, Inc.

Logged in 110891

| Page of                 |             | REMARKS   | SOILWATERAIR              | SEDIMENTSLOOSE   | water        |                   |                  |   |  |  |  |  |  | RECEIVED BY: (SIGNATURE)              | RECEIVED BY: (SIGNATURE)     | 17315                                 | ABB Environmental Services, Inc. |
|-------------------------|-------------|-----------|---------------------------|------------------|--------------|-------------------|------------------|---|--|--|--|--|--|---------------------------------------|------------------------------|---------------------------------------|----------------------------------|
|                         |             |           |                           |                  |              |                   |                  |   |  |  |  |  |  | RECEIV                                | RECEIV                       | 2696                                  | vironm                           |
| 20                      | SAMPLE TYPE |           |                           |                  |              |                   |                  |   |  |  |  |  |  | DATE/TIME                             | DATE/TIME                    | AIT bill #0526947315                  | ABB En                           |
| RECO                    | SAM         |           |                           |                  |              |                   |                  |   |  |  |  |  |  | (SIGNATURE)                           | (SIGNATURE)                  | REMARKS<br>ALT DI                     |                                  |
| TODY                    |             | <u></u>   | οπ <del>ς</del><br>Σίν Ια |                  | 3            | 8                 | •                |   |  |  |  |  |  | RELINGUISHED BY: (SIGNATURE)<br>19. ( | RELINCUISHED BY: (SIGNATURE) | DATE/TIME                             |                                  |
| CHAIN OF CUSTODY RECORD |             | USATHAMA  |                           | STATION LOCATION | SWN-91-050   | SWN-91-03B (#1) 3 | SWN-91-03D(#1) 3 |   |  |  |  |  |  | BY: (SIGNATURE)                       | RECEIVED BY: (SIGNATURE) REL | RECEIVED FOR DISPOSAL BY: (SKANATURE) |                                  |
|                         |             | ВАЯР- USP | E. Roka                   | GRAB             | ns X         | υς  ×             | ns X             | • |  |  |  |  |  | DATE/TIME<br>11.7.91   1603           | DATE/TIME                    | DATE/TIME                             |                                  |
|                         | PROJECT     |           | lmcu                      | DATE TIME 8      | 11.6.91 1645 | 11.7.91           | 11.791 1235      |   |  |  |  |  |  |                                       | ED BY: (SIGNATURE)           | f: (SIGNATURE)                        | -                                |
|                         | PROJECT NO. | 06853.04  | SAMPLERS (SIGNATURE)      | STA. NO.         | 11           | 1                 | =                |   |  |  |  |  |  | PELINOUISHED BY: (SKGNATURE)          | MÉLINOUISHER BY              | RELINCUISHED BY: (SKRNATURE)          | OHR                              |

ABE ENVIRONMENTAL, INC. ANALYTICAL LABORATORY SERVICES 340 COUNTY ROAD NO. 5 P. 0. BOX 729 MESTBROON, ME 04092 (207)674-2460/FAX(207)775-4029

USATHAMA BAIGER AMMUNITION PLANT BARABOS WI 53913

REFORT OF ANALYSIS 11/18/ REFERENCE NUMBER 127 PAGE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SI                                           | WW-91-03B                                                                       | SWN-91-03D                              | SWN-91-03C                       | 5W-91-03C                        |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------|----------------------------------|----------------------------------|----------------------------------------|
| Al                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NT SAMPLE ID<br>BB SAMPLE ID<br>ATE RECEIVED | 9103P #2<br>91316001<br>11/12/91                                                | 9103D #2<br>91316002<br>11/12/91        | 9103C ±1<br>91316003<br>11/12/91 | 9163C #2<br>91316004<br>11/12/91 | UNITS                                  |
| TARGET CO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | HPOUND LIST - VO                             | LATILES                                                                         |                                         |                                  |                                  |                                        |
| CHLOROMETHANE BROMONETHANE VINYL CHLORIDE CHLOROETHANE METHYLENE CHLORIDE ACETONE CARBON DISULFIDE 1,1-DICHLOROETHENE 1,1-DICHLOROETHENE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 2-BUTANONE 1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE VINYL ACETATE BROHODICHLOROMETHANE 1,1,2-TETRACHLOROETHANE 1,2-DICHLOROMETHANE 1,1,2-TRICHLOROFROPENE TRICHLOROETHENE DIBROMOCHLOROMETHANE 1,1,2-TRICHLOROFROPENE BROMOCHLOROMETHANE 2-HEXANONE 4-METHYL-2-PCNTANONE TETRACHLOROETHENE TOLUENE CHLOROBENZENE ETHYLBENZENE STYRENE TOTAL XYLENES |                                              | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 | 555555555555555555555555555555555555555 | <pre>{ 10 { 10 { 10</pre>        | 5                                | 66666666666666666666666666666666666666 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SURROGATE RECOVER                            | RY .                                                                            |                                         |                                  |                                  |                                        |
| TOLUENE-D8 P-BROMOFLUOROBENZENE 1,2-DICHLOROETHANE-D4 SIGNATURE RELEASED BY CLIENT AUTHORIZATION                                                                                                                                                                                                                                                                                                                                                                                                                                     | Jauna 1009<br>LALERA JOUEARA<br>6853-04      | 105<br>102<br>Messa                                                             | 95<br>107<br>98                         | 94<br>107<br>99                  | 92<br>109<br>100                 | X<br>X                                 |

USATHAMA REPORT OF ANALYSIS 11/18/91
BADGER AMMUNITION PLANT REFERENCE NUMBER 12201
BARABOO WI 53913 PAGE 2

- J = Indicates an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.
- B = Analyte was detected in the laboratory method blank analyzed concurrently with the samples.

For the Volatile Organic analyses of sample numbers 91316002 and 004: Methylene Chloroide was detected in the method blank at 2 J ug/L.

ABB Environmental Services, Inc. Analytical Laboratory Westbrook, Maine

ANALYTICAL METHOD INFORMATION

PARAMETER: TARGET COMPOUND LIST (TCL) VOLATILE ORGANICS

METHOD: 624/8240 MATRIX: AQUEOUS

| Compound                  | Practical Quantitation Limit (PQL) |
|---------------------------|------------------------------------|
|                           | (ug/L)                             |
| Chloromethane             | 10                                 |
| Bromomethane              | 10                                 |
| Vinyl Chloride            | 10                                 |
| Chloroethane              | 10                                 |
| Methylene Chloride        | 10                                 |
| Acetone                   | 15                                 |
| Carbon Disulfide          | 10                                 |
| 1,1-Dichloroethene        | 5                                  |
| 1,1-Dichloroethane        | 5                                  |
| 1,2-Dichloroethene        | 5                                  |
| Chloroform                | 5                                  |
| 1,2-Dichloroethane        | 5                                  |
| 2-Butanone                | 15                                 |
| 1,1,1-Trichloroethane     | 5                                  |
| Carbon Tetrachloride      | 5                                  |
| Vinyl Acetate             | 15                                 |
| Bromodichloromethane      | 5                                  |
| 1,1,2,2-Tetrachloroethane | 5                                  |
| 1.2-Dichloropropane       | 5                                  |
| trans-1,3-Dichloropropene | 5                                  |
| Trichloroethene           | 5                                  |
| Dibromochloromethane      | 5                                  |
| 1,1,2-Trichloroethane     | 5                                  |
| Benzene                   | 5                                  |
| cis-1,3-Dichloropropene   | 5                                  |
| Bromoform                 | \$                                 |
| 2-Нехадоре                | 15                                 |
| 4-Methyl-2-Pentanone      | 15                                 |
| Tetrachloroethene         | 5                                  |
| Toluene                   | 5                                  |
| Chlorobenzene             | \$                                 |
| Ethylbenzene              | 5                                  |
| Styrene                   | 5                                  |
| Total Xylenes             | 5                                  |

PQL = Practical Quantitation Limit represents the normally obtainable measurement level achieved by the laboratory under practical and routine laboratory conditions for a variety of sample matrices.

Sample-specific reporting limits may vary from the standard PQL as a result of sample matrix and compound concentration.

#### ABB Environmental Services, Inc. Analytical Laboratory Westbrook, Maine

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#### **EPA**

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"Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA-600/4-82-057, July 1982, EMSL Cincinnati, Ohio 45268.

"Test Methods for Evaluating Solid Waste", EPA-SW-846, November 1986, Third Edition, Office of Solid Waste and Emergency Response, Washington, DC, 20460.

"Guidelines Establishing Test Procedures for the Analysis of Pollutants
Under the Clean Water Act", Federal Register Vol. 49, No. 209, October 26, 1984.

Federal Register Vol. 52, No. 13, January 21, 1987.

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Caucus Organic and Inorganic Protocols, USEPA National Contract Laboratory Program.

\*Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma Optical Emission Spectrometry\*(EPA/EMSL/RTP,N.C.)—Approved for Use by EPA,EMSL,RTP,N.C., EQL-0380-045.

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#### Other

"Method of Soil Analysis; Chemical and Microbiological Properties", Part 2, American Society of Agronomy, C.A. Black, ed., 1965.

\*Official Methods of Analysis of the Association of Official Analytical Chemists\*, Methods Manual, 14th ed., 1985.

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|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Sample Identification                                                                                                  | Lab Numbers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Date Sampled                                     | Sampled By                                                                                                                  | Analyses Required                                     |
| SUIN-91-03B (#2)                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11.891                                           | NANCY PORA                                                                                                                  | VOA; 624 #.52.91                                      |
| SWN-91-03D (#2)                                                                                                        | 91316000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                                |                                                                                                                             | TEL VOA 624                                           |
| SuN-91-03C (#1)                                                                                                        | 91316003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 11.9.91                                          | l                                                                                                                           |                                                       |
| SWN-91-03C (#2)                                                                                                        | 91316004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 11.10.91                                         | <u> </u>                                                                                                                    | <u> </u>                                              |
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ABB Environmental Services, Inc.

| CHAIN OF CUSTODY RECORD | PROJECT NAME SAMPLE TYPE | 5HHY- USH 14 HUM | Namey E. Rorba       | STATION LOCATION | וויציטו (און אויציאר אוי-19 אויציאר (#א אויא אויציאר אוי אייאר אוי | 1640 X SWN-91-030 (#3) 3 3   1   1   1   1   1   1   1   1   1 | 1      | 11-10-71 [515 X SWN-91-03C (#2) 22 22 |  |  |  |  |  | DATE/TIME   RECEIVED BY SIGNATURE)   RELINQUISHED BY: (SIGNATURE)   DATE/TIME   11-11-71   1600   John X XULA   11-27   2-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25   1-25 | DATE/TIME RECEIVED BY: (SIGNATURE) | BY: (SIGNATURE) DATE/TIME RECEIVED FOR DISPOSAL BY: DATE/TIME REWARKS  (SIGNATURE)   Hirbit   # 0526947326  ABB Environmental Services Inc. |
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File 01-2-81 0 eg

#### MEMORANDUM

TO: Jeff Pickett

FROM: Laura J. O'Meara

DATE: November 26, 1991

SUBJ: Report of Analysis

Please find enclosed the Report of Analysis (ROA) for the Badger Army Ammunition Plant samples received by the laboratory on November 20, 1991. This Report of Analysis is identified by the Reference Number: 12231. Samples reported under the attached ROA and associated QC samples met ABB-ES internal quality control criteria except as noted on the ROA. This cover memo is an integral part of the ROA.

If you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact me or Geoff Pellechia. We appreciate your continued use of ABB Environmental Services for your analytical needs and look forward to working with you in the future.

dt

5WN-91-03C

ASE ENVIRONMENTAL, INC. AMALYTICAL LABORATORY SERVICES 340 COUNTY ROAD NO. 5 F. O. BCX 720 WESTERDOR, ME 04090 (207)874-2400/FAX(207)775-4029

USPTHAMP BARGER, AMMUNITION PLANT BARKEDD WIL TITLE REFORT OF ANALYSIS 11/26/91 REFERENCE NUMBER 12231 PAGE 1

| SUN 903<br>SLIENT SAMPLE ID SWAF1030<br>ABB SAMPLE ID 71024901<br>DATE RECEIVED 11/20/91<br>TARGET COMFOUND LIST - VOLATILES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | C<br>UNITS                                   |
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| VOLATILE SURROGATE RECOVERY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |
| TOLUENE-DS F-BROMOFLUOROBENZENE 1.02-DICHLOROBENZENE  3636<br>3636                                 |

USATHAMA
BADGER AMMUNITION PLANT
BARABOO WI 53913

REFERENCE NUMBER
PAGE

11/26/91 12231 2

J = Indicates an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.

B = Analyte was detected in the laboratory method blank analyzed concurrently with the samples.

For the Volatile Organic Analysis: Methylene Chloroide was detected in the method blank at 2 J ug/L.

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ABB Environmental Services, Inc. Analytical Laboratory Westbrook, Maine

#### ANALYTICAL METHOD INFORMATION

PARAMETER: TARGET COMPOUND LIST (TCL) VOLATILE ORGANICS

METHOD: 624/8240 MATRIX: AQUEOUS

| Сотроши                   | Practical Quantitation Limit (PQL) |
|---------------------------|------------------------------------|
|                           | (ug/L)                             |
| Chloromethane             | 10                                 |
| Bromomethane              | 10                                 |
| Vinyl Chloride            | 10                                 |
| Chloroethane              | 10                                 |
| Methylene Chloride        | 10                                 |
| Acetone                   | 15                                 |
| Carbon Disulfide          | 10                                 |
| 1,1-Dichloroethene        | 5                                  |
| 1.1-Dichloroethane        | 5                                  |
| 1,2-Dichloroethene        | 5                                  |
| Chloroform                | 5                                  |
| 1,2-Dichloroethane        | 5                                  |
| 2-Butanone                | 15                                 |
| 1,1,1-Trichloroethane     | 5                                  |
| Carbon Tetrachloride      | 5                                  |
| Vinyl Acetate             | 15                                 |
| Bromodichloromethane      | 5                                  |
| 1,1,2,2-Tetrachloroethane | 5                                  |
| 1,2-Dichloropropane       | 5                                  |
| trans-1,3-Dichloropropene | 5                                  |
| Trichloroethene           | 5                                  |
| Dibromochloromethane      | 5                                  |
| 1.1.2-Trichloroethane     | 5                                  |
| Benzene                   | 5                                  |
| cis-1,3-Dichloropropene   | 5                                  |
| Bromoform                 | 5                                  |
| 2-Hexanose                | 15                                 |
| 4-Methyl-2-Pentanone      | 15                                 |
| Tetrachloroethene         | 5                                  |
| Toluene                   | 5                                  |
| Chlorobeazene             | 5                                  |
| Ethylbenzene              | 5                                  |
| Styrene                   | 5                                  |
| Total Xylenes             | 3                                  |

PQL = Practical Quantitation Limit represents the normally obtainable measurement level achieved by the laboratory under practical and routine laboratory conditions for a variety of sample matrices.

Sample-specific reporting limits may vary from the standard PQL as a result of sample matrix and compound concentration.

#### ABB Environmental Services, Inc. Analytical Laboratory Westbrook, Maine

#### **METHOD REFERENCES**

#### EPA

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020.

"Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA-600/4-82-057, July 1982, EMSL Cincinnati, Ohio 45268.

"Test Methods for Evaluating Solid Waste", EPA-SW-846, November 1986, Third Edition, Office of Solid Waste and Emergency Response, Washington, DC, 20460.

"Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act", Federal Register Vol. 49, No. 209, October 26, 1984.

Federal Register Vol. 52, No. 13, January 21, 1987.

"Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", Physical and Chemical Methods Branch, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268.

Caucus Organic and Inorganic Protocols, USEPA National Contract Laboratory Program.

\*Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma Optical Emission Spectrometry\*(EPA/EMSL/RTP,N.C.)—Approved for Use by EPA,EMSL,RTP,N.C., EQL-0380-045.

"Reference Method for the Determination of Particulate Matter as TSP in the Atmosphere", 40CFR Part 50 Appendix B.

"Reference Method for the Determination of Particulate Matter as PM-10 in the Atmosphere", 40CFR Part 50 Appendix J.



"Standard Methods for the Examination of Water and Wastewater", American Public Health Association, 16th Edition.

#### Other

"Method of Soil Analysis; Chemical and Microbiological Properties", Part 2, American Society of Agronomy, C.A. Black, ed., 1965.

"Official Methods of Analysis of the Association of Official Analytical Chemists", Methods Manual, 14th ed., 1985.

| ANALYSIS  Client Information: Na Compa Mailing Adddre  Purchase Order/Job Numl  Where to Send Report    Approved By: | me ISFTH any BFIF ass II S. R BITTLE ber SASS  Directly to Client ABB - Name SI | AMA  Soute la  Soute la  To WI  Soute la  Frickett | Results Due Client I.D. No.  Solid Waste Data Docum Entered in Cl Type of Sample List Any Hazard Filtered in Filtered in Filtered in Filtered in Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Information Infor | Data File entation Regid pomputer list SPECIAL PROCEDURE eld Mon-Filtered remation or Special Procedures |
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| Sample Identification                                                                                                | Lab Numbers                                                                     | Date Sampled                                       | Sampled By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Analyses Required                                                                                        |
| Swn-91-03C #3                                                                                                        | 91334001                                                                        | 11.19.91                                           | ! Ther/Lachse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ACTION AND                                                                                               |

ABB Environmental Services, Inc.

| Tege T       |              | REMARKS                                      | INDICATE            | SEDIMEN I/SLUDGE | water           |  |  |   |   |            |  |  |     | RECEIVED BY: (SKGNATURE)     | RECEIVED BY: (SKRNATURE)     | ያዋናንያዛ (                     | ABB Environmental Services, Inc. |
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| ORO          | SAMPLE TYPE  |                                              |                     |                  |                 |  |  | 1 |   |            |  |  | · . | DATE/TIME                    | DATE/TIME                    | Airbill # 0526947341         | _ABB Environm                    |
| S DDY RECORD | 35           | <u>.                                    </u> | S.P.S.              | တ                | 4 14            |  |  |   | 7 | \          |  |  |     | RELINQUISHED BY: (SKANATURE) | RELINQUISHED BY: (SIGNATURE) | DATE/TIME REMARKS            |                                  |
| CHAIN OF CUS |              |                                              |                     | STATION LOCATION | SWN-91-03C (#3) |  |  |   |   | <b>-</b> \ |  |  |     | RECEIVED BY: (SIGNATURE)     | RECEIVED BY: (SIGNATURE)     | RECEIVED FOR DISPOSAL BY:    |                                  |
|              | IME          | ВААР- ИЗЯТНАМЯ                               | y E. Roha           | SMOS<br>BARD     | us X            |  |  |   |   |            |  |  |     | DATE/TIME                    | DATE/TIME                    | DATE/TIME                    |                                  |
|              | PROJECT NAME |                                              | Mancy               | DATE TIME        | 11.18.91        |  |  |   |   |            |  |  |     | 8Y: (SIGNATURE)              | BY: (SIGNATURE)              | 3Y: (SIGNATURE)              |                                  |
|              | PROJECT NO.  | 10-6239-04                                   | SAMPLERS (SIGNATURE | STA. NO.         | -               |  |  |   |   |            |  |  |     | RELINQUISHED BY: (SIGNATURE) | RELINGUISHIDI                | RELINQUISHED BY: (SIGNATURE) |                                  |

#### Appendix L.7

Selection of Analytical Results in the Case of More than One Analytical Method

W0039213LAPP 6853-12



#### Inter-Office Correspondence

6853.06

DATE:

May 15, 1992

FROM:

Jim Buss

TO:

Project File 2.83

SUBJECT:

Duplicate Entries in BAAP Soil Data Base (CSO)

Upon review of BAAP soil data base (CSO) numerous duplicate entries were encountered (see attached list). Since these entries generally correspond with different analytical techniques only one entry can be used for each sample. These cannot be treated as duplicate samples. The following steps have been used to address the duplicate entries:

- For 13DCLB with methods LM23 (VOC) and LM25 (SVOC) duplicate entries, only LM25 data will be utilized. LM25 has a lower detection limit. All duplicate entries for 13DCLB are LT or ND values.
- 2. All analyses by methods CC8 and SS12 will be tabulated separately as these represent TCLP data.
- 3. For 24DNT and 26DNT with methods LM25 (SVOC, GCMS) and LW23 (Explosives, HPLC), the LW23 data will generally be utilized. Although LM25 generally has lower detection limits, The LW23 method is considered to be more reliable. The exceptions, listed below, occur when the LW25 method gives a higher result or when the LW23 method had a LT or ND result and the LM25 method resulted in a measurable concentration.

```
DBB-91-01 @ 2 ft. — for 26DNT use LM25
DBB-91-01 @ 42 ft. — for 26DNT use LM25
DBB-91-01 @ 42 ft. — for 26DNT use LM25
DBB-91-01 @ 44 ft. — for 26DNT use LM25
DBB-91-01 @ 52 ft. — for 26DNT use LM25
DBB-91-02 @ 4 ft. — for 26DNT use LM25
DBB-91-02 @ 27 ft. — for 24DNT use LM25
DBB-91-02 @ 27 ft. — for 26DNT use LM25
DBB-91-03 @ 27 ft. — for 26DNT use LM25
DBB-91-03 @ 20 ft. — for 26DNT use LM25
DBB-91-03 @ 20 ft. — for 24DNT use LM25
DBB-91-03 @ 20 ft. — for 24DNT use LM25
DBB-91-03 @ 22 ft. — for 24DNT use LM25
DBB-91-03 @ 22 ft. — for 26DNT use LM25
DBB-91-03 @ 22 ft. — for 26DNT use LM25
DBB-91-03 @ 22 ft. — for 26DNT use LM25
DBB-91-03 @ 27 ft. — for 26DNT use LM25
```

PBS-91-10 @ 0.0 ft. — for 26DNT use LM25

```
PBS-91-48 @ 0.0 ft. — for 24DNT use LM25 RPS-91-12 @ 0.0 ft. — for 26DNT use LM25 RPS-91-13 @ 0.0 ft. — for 26DNT use LM25 RPS-91-14 @ 0.0 ft. — for 26DNT use LM25 RPS-91-48 @ 0.0 ft. — for 26DNT use LM25 RPS-91-51 @ 0.0 ft. — for 26DNT use LM25 RPS-91-67 @ 0.0 ft. — for 24DNT use LM25 RPS-91-67 @ 0.0 ft. — for 24DNT use LM25 RPS-91-67 @ 0.0 ft. — for 26DNT use LM25
```

- 4. For metals (PB) with methods JS12 (ICP) and JD21 (GFAA) duplicate entries, only JD21 data will be utilized. The JD21 method is considered to be more reliable, has lower detection limits and generally yielded higher concentration results.
- 5. For metals (V) with methods JS12 (ICP) and JD23 (GFAA) duplicate entries, only JD23 data will be utilized. The JD23 method is considered to be more reliable, and has yielded higher concentration results.
- 6. For metals (TL) with methods 99 and JS12 (ICP) duplicate entries only JS12 data will be utilized. The 99 method is not USATHAMA certified.
- 7. For nitrosamines with methods LM25 (SVOC, GCMS) and LN08 (nithrosamines, NPD), the LN08 data will generally be utilized. The LN08 method generally has lower detection limits and is considered to be more reliable. However, in several instances the LM25 method yielded higher concentrations. These instances, listed below are the only occurrences where the LM25 data will be utilized rather than the LN08 data.

```
DBB-91-01 @ 4 ft. - for NNDPA use LM25
DBB-91-01 @ 6 ft. - for NNDPA use LM25
DBB-91-01 @ 30 ft. - for NNDPA use LM25
DBB-91-03 @ 4 ft. - for NNDPA use LM25
DBB-91-03 @ 18 ft. - for NNDPA use LM25
DBB-91-03 @ 22 ft. - for NNDPA use LM25
PBB-91-06 @ 91 ft. - for NNDPA use LM25
```

8. The samples listed below have different USATHAMA Record IDs, but are otherwise duplicate entries. The samples were analyzed for PB by method JD21. Only one of these entries will be utilized in the data base.

#### USATHAMA Record IDs

2759806 & 3010043 2759819 & 3010056 2759820 & 3010057 2759821 & 3010058 2759822 & 3010059 2759823 & 3010060

9. All unknown entries will be separately tabulated.



#### Inter-Office Correspondence

6853.06

DATE:

June 9, 1992

FROM:

Rod Pendieton

TO:

Project File 2.83/Badger Army Ammunition Plant (BAAP)

SUBJECT:

Duplicate Entries in BAAP Groundwater Database (CGW)

Upon review of the BAAP Round  $\mathcal{X}$  groundwater data (CGW) numerous duplicate entries were encountered (see attached list). Since these entries generally correspond with different analytical techniques only one entry can be used for each sample. These cannot be treated as duplicate samples. the following steps have been used to address the duplicate entries:

- 1. For 12DCLB, 13DCLB, and 14DCLB with methods UM16 (SVOC) and UM33 (VOC) duplicate entries, all duplicate entries are LT or ND values. Use the method with the lower detection limit (i.e., when an LT or ND boolean is present, use the method with the lower value).
- 2. For 24DNT and 26DNT with methods UW26 (Explosives, HPLC) and UM16 (SVOC, GCMS), the UW26 data will be utilized. Method UW26 has a lower detection limit.
- 3. For NNDPA with methods UM16 (SVOC, GCMS) and UN06 (Nitrosamines, NPD), the UN06 data will be utilized. Method UN06 has a lower detection limit.
- 4. For metals (TL) with methods 99 and SS16 duplicate entries, only SS16 data will be utilized. The 99 method is not USATHAMA certified.
- 5. For ELN-89-04A metals, use the data with sample date of 12/10/91. The 12/5/91 sample was not preserved upon collection in the field.
- 6. For ELN-82-02C metals, use the data with sample date of 12/09/91. The 12/13/91 sample should not have been analyzed for metals by the laboratory.
- 7. For ELN-82-02C HARD and NIT data, use the data with sample date of 12/13/91. The 12/09/91 sample was not preserved upon collection in the field.
- 8. For ELN-89-04A HARD data, use the data with sample date of 12/10/91. The 12/05/91 sample was not preserved in the field.
- 9. For ELN-82-04A CL data, use the data from lot IEO (contains concentration greater than lot IEZ).
- 10. For ELN-82-04A S04 data, use the data from lot IEZ (contains concentration greater than lot IEO).

June 9, 1992 Page 2

- 11. For PBM-85-04 NIT data, use the data with sample date of 11/13/91.
- 12. All unknown entries will be separately tabulated.

RP/cb



#### Inter-Office Correspondence

6853-06

TO:

PROJECT FILE 2.83/BADGER ARMY AMMUNITION PLANT (BAAP)

FROM:

**ROD PENDLETON** 

DATE:

JULY 31, 1992

SUBJECT:

DUPLICATE ENTRIES IN BAAP GROUNDWATER DATABASE (CGW)

Upon review of the BAAP Round  $\mathbb{Z}$  groundwater data (CGW) numerous duplicate entries were encountered (see attached list). Since these entries generally correspond with different analytical techniques only one entry can be used for each sample. These cannot be treated as duplicate samples. The following steps have been used to address the duplicate entries:

- 1. For 12DCLB, 13DCLB, and 14DCLB with methods UM16 (SVOC) and UM33 (VOC) duplicate entries, all duplicate entries at LT or ND values. Use the method with the lower detection limit (i.e., when an LT or ND boolean is present, use the method with the lower value).
- 2. For 24DNT and 26DNT with methods UW26 (Explosives, HPLC) and UM16 (SVOC, GCMS), the UW26 data will be utilized. Method UW26 has a lower detection limit.
- 3. For NNDPA with methods UM16 (SVOC, GCMS) and UN06 (Nitrosamines, NPD), the UN06 data will be utilized. Method UN06 has a lower detection limit.
- 4. All unknown entries will be superately tabulated.

#### **MEMO**

To:

Rod Pendleton

1-B10

From:

Jeffrey A. D'Arco

1-B10

Date:

September 9, 1992

Subject:

BAAP CGW PRODUCTION WELL ANALYTE DUPLICATES

All three rounds of sampling for the production well have been located. Several analytes were reported in duplicate in rounds one and two. The following is a list of the adjustments made to the database. All adjustments follow the concept of the earlier adjustments made to the database.

- 1. Compounds 12DCLB, 13DCLB, and 14DCLB under methods UM16, UM33 and UM17 were all LT. The records with the lower limit were kept.
- 2. Compounds 24DNT, 26DNT, and NB under methods UM16 and UW26 were all LT or ND. The records with the lower limit were kept.
- 3. Compounds NDNPA and NNDPA under methods UM16 and UN06 were all LT or ND. The records with the lower limit were kept.

# Appendix L.8 USATHAMA/USEPA Split Groundwater Samples

W0039213LAPP 6853-12

#### **MEMORANDUM**

Date:

March 31, 1993

From:

Jim Buss

To:

BAAP File 2.53

Subject:

USEPA split groundwater samples at BAAP

This memo will compare and contrast the overall results of split (collocated) groundwater samples analyzed by Arthur D. Little, Inc (ADL) on behalf of USATHAMA, and by Clayton Environmental Consultants and Skinner and Sherman Laboratories, Inc with data validation by PRC Environmental Management Inc. (PRC) on behalf of USEPA. During the Round Two (April/May 1992) groundwater sampling effort at BAAP split groundwater samples were collected from 13 monitoring wells. A summary table presenting sample results from both PRC and ADL for those analytes listed in the PRC summary table is attached to this memo. This is followed by a memo from PRC detailing QA/QC findings for the PRC samples. It should be noted that the ADL samples were analyzed under USATHAMA protocol while the PRC samples were analyzed under USEPA protocol. This memo will address organic (VOCs and SVOCs) as well as inorganic (metals) analyses.

#### **ORGANICS**

Overall the split sample results show a reasonably good correlation, however, the PRC detection limit appears to be approximately 10 ug/l, which is too high to detect some of the site related VOCs at BAAP. Although most of the wells selected for split sample collection were within the Propellant Burning Ground contaminant plume, CCLA was the only site related VOC detected by PRC. CHCL3 and TRCLE were not detected in the PRC samples. CHCL3 and TRCLE concentrations detected by ADL at the wells with split samples were below 10 ug/l (the approximate detection limit of the PRC samples).

Generally the PRC results detected CCLA at concentrations lower than the ADL sample results. The maximum concentration of CCLA detected by PRC was 40 ug/l at SPN-89-03C. The ADL result from this well was 89 ug/l.

B2EHP was the only SVOC detected, however, PRC notes in their QA/QC report that B2EHP is a common laboratory contaminant and that it's presence in samples is not necessarily reflective of actual sample concentrations.

#### **INORGANICS**

Overall the inorganic analyses also correlated reasonably well between the PRC and ADL data. The inorganic data is of particular interest in evaluating the presence or absence of CR in the groundwater samples. During the Round One Groundwater sampling effort CR was detected in many wells across BAAP, including bedrock wells and overburden wells, background wells and downgradient wells and, production wells and monitoring wells. However, during the Round Two groundwater sampling effort very few CR detects were measured. The split samples analyzed by PRC generally confirm the Round Two sample results. CR was detected in 3 of the 15 total samples (2 samples were PRC duplicates). Of the three detects one occurred in a duplicate sample and was not confirmed in the other sample of the duplicate pair. The other two samples had CR concentrations of 9.2 and 3.1 ug/l and were considered "estimated" results. The detection limit for the ADL samples was 4.47 ug/l.

Results for other metals analyses correlated reasonably well between ADL and PRC although results for K and NA were typically higher in the ADL data and variable results were noted in the NA analyses.



# REMEDIAL INVESTIGATION · BADGER ARMY AMMUNITION PLANT

| MONITORING WELL                    |           | SPN-89-02B  | SPN-89      | -02C        | SPN-RO-01B  | SPN-89-03C  | NAV         | CPN-RO-OAR | CPN - 80 - 04C | CPN-RO-OAC     | SWN - 61 - 02E | 020      |
|------------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|------------|----------------|----------------|----------------|----------|
| SAMPLING LOCATIONS                 |           | PRC ADL     | PRC         |             | PRC ADL     |             |             | ADL        | PRC ADL        |                |                | ADL      |
| Organic Results (ug/L)             |           |             |             | -           |             |             |             |            |                |                | +              |          |
| Chloromethane (CF                  | (CH3CL) U |             | ח ח         | חח          | n n         | ñ           | מומ         | a          | n n            | AN<br>AN       | 5              | 2        |
| Carbon tetrachloride (CC           | (CCLA)    | 20 21.6     | 21.6 20     | 23.5        | U 71.6      | 40 89.2     | 2 U         | 8.43       | 10 16.7        | OI<br>NA       | 0 1            | 10.8     |
| Carbon disulfide (CS2)             |           | U U         | U U         | U           | n n         | Ω           | U<br>U      | D          | n n            | AN AN          | 2              | ר        |
| Bis(2-ethylbexyt)phthalate (B2EHP) |           | 20 U        | U 120       | 49          | U SI        | 6'99 09     | 9 20        | 175        | 20 U           | 20 NA          | 8              | 62.1     |
| Inorganic Results (ug/L)           |           |             |             |             |             |             |             |            |                |                |                |          |
| Aluminum (AL)                      |           | U U         | U U         | U           | 290 U       | Ω           | חח          | Ω          | n<br>n         | U U            | AN 1           | ž        |
| Barium (BA)                        |           | 33.81 33.1  | 33.1 361    | 32.5 343    | 343 31.4    | 33.63 40.4  | 4 45.23     | 44         | 36.51          | 41.6 37.8J NA  | ¥              | ž        |
| Calcium (CA)                       |           | 77100 84000 | 84000 78300 | 58000 73200 | 73200 77000 | . 00111     | 78000 84400 | 81000      | 84100 89000    | 89000 85900 NA | X<br>A         | Ϋ́       |
| Chromium (CR)                      |           | 3.1J U      | U 9.21      | U           | U U         | Ú           | U U         | U          | ח              | U 3.5J NA      | ¥              | כ        |
| Cobalt (CO)                        | ٦         | U           | U U         | U           | U U         | n           | U U         | U          | u u            | N NA           | Y.             | ž        |
| Copper (CU)                        |           | 2.13 5.52   | 5.52 U      | 7.6         | U U         | n           | U 2.5J      | 8.64       | n n            | N U            | ¥Z             | ž        |
| Iron (FE)                          |           | 23.8J U     | U 43.4J     | 27.8        | U           | U 28.2      | 2 U         | U          | U U            | N NA           | Y Y            | ž        |
| Lead (PB)                          |           | 1.51 13.6   | 13.6 1.23   | 7.02        | 1.6J 10.1   | 1.5J        | U 1.3J      | n          | 1.23 U         | 1.6J           | Υ <sub></sub>  | 0        |
| Magnesium (MG)                     |           | 40300 44000 | 44000 41400 | 38000 38200 | 38200 41000 | 40900 42000 | 0 42300     | 41000      | 44700 48000    | 45700 NA       | AN A           | ž        |
| Manganese (MN)                     |           | U           | U 1.1       | D           | U 18.5 U    | U           | U U         | U          | ח ח            | N              | AN A           | ž        |
| Nickel (NI)                        |           | U           | U 5.13      | ט ט         | U U         | U           | U U         | U          | U U            | U NA           | N<br>N         | ž        |
| Potessium (K)                      |           | 894J 1650   | 1650 9011   | 21000       | 916J 1480   | 888J 1500   | 0 9373      | 2160       | 9100           | 1550 959J NA   | AN A           | ž        |
| Selenium (SE)                      |           | 4J U        | U 4J        | D           | J. O        | 43          | U 43        | U          | 4J U           | A) NA          | NA<br>NA       | <b>۷</b> |
| Sodium (NA)                        |           | 7120 11000  | 11000 6250  | 24000       | 4860J 10000 | 5040 9200   | 0 11900     | 23000      | 45500 19000    | 4680J NA       | NA NA          | Y.       |
| Thallium (TL)                      |           | 1J U        | U 13        | ם           | 11 U        | IJ          | U 11        | U          | u u            | IJ NA          | NA NA          | ¥<br>X   |
| (NZ) SIPC                          |           | U U         | ŋ           | D           | U U         | ) ·         | y l u       | 29         | U U            | U              | NA NA          | Š        |
|                                    |           |             |             |             |             |             |             |            |                |                |                |          |

## Noter

- within each column the left hand value represents PRC data and the right hand value represents the ADL data
- field duplicate (duplicate analyses performed on PRC samples only)
  - analyte not detected
    - estimated value
- \ = analyte not analyzed
- PRC = PRC Environmental Management, Inc. PRC validated the results. Clayton Environmental Consultants and Skinner and Sherman Laboratories, Inc. analyzed the samples on behalf of USEPA.
  - ADL Arthur D. Little. ADL analyzed the samples on behalf of USATHAMA.

Samples were collected in April 1992

30 - Mar - 91

# SUMMARY OF COLLOCATED GROUNDWATER SAMPLES\* TABLE L.8

# **BADGER ARMY AMMUNITION PLANT** REMEDIAL INVESTIGATION

| Results (ug'L)  stract (CH3CL)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  stracthoride (CCLd)  (CC)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU)  (CU) | MONITORING WELL          |        | SWN-91-03C | SWN-91-03D | SWN-91-03E | ELN-82-02A | 1 BLN-82-02A | BLN-89-04A | \$1153  |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|------------|------------|------------|------------|--------------|------------|---------|---------|
| Sevella (ug(L))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SAMPLING LOCATIONS       |        |            | PRC        | PRC        | PRC        | PRC          | PRC ADL    | PRC     | ADL     |
| State   CCH3CL    U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Organic Results (un/L)   |        |            |            |            |            |              |            |         |         |
| in by the certachloride (CCLA) U C 2.75 U U U U U U U U U U U U U U U U U U U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          | CH3CL) |            | n          | n)         | n n        |              | _          | 1 0     | כ       |
| tiny linearity (CS2)         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | oride                    | CCLA)  | U 2.75     | Ω          | n          | U U        | NA           |            | n n     | ב       |
| inc Results (ug/L)         AA         NA         NA         V         748         50         462         30         NA           inc Results (ug/L)         NA         NA         NA         V         U         U         U         U         U         U         NA         NA <t< th=""><th></th><th></th><th></th><th></th><th>U</th><th></th><th>NA</th><th>_</th><th>10</th><th>ם</th></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |        |            |            | U          |            | NA           | _          | 10      | ם       |
| In   In   In   In   In   In   In   In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |        |            | 150        | U          | 90         | 30           |            | 7 40    | ב       |
| May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May   May    | Inorganic Results (ug/L) |        |            |            |            |            |              |            |         |         |
| CA   NA NA NA NA 68300 68000 130000 13400 NA NA NA NA CASU 68000 130000 13400 NA NA NA NA NA NA NA NA NA NA NA NA NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |        |            | NA         | U          |            |              | י ח א      | ) U     | D       |
| CA   NA NA NA NA O   O   O   O   O   O   O   O   O   O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |        |            | NA         | 24.23      |            |              | A 116J 130 | 0 38.71 | 38.2    |
| (CO)         NA         NA         NA         U         U         U         U         U         NA         NA         NA         NA         U         U         U         U         NA         NA         NA         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |        |            | YN         | 68300      |            | 13400        |            | 87300   | 0000096 |
| (CU)         NA         NA         NA         U         U         U         U         U         NA           (CU)         NA         NA         NA         NA         U         U         U         U         U         NA         NA         NA         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |        | !<br>!     | VA<br>VA   | ū          | U          | n            |            | J U     | ח       |
| (CU)         NA         NA         NA         U         U         U         U         NA         NA <th></th> <th></th> <th></th> <th>NA</th> <th>Ω</th> <th>U 4.63</th> <th></th> <th>א ת</th> <th>J U</th> <th>ב</th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |        |            | NA         | Ω          | U 4.63     |              | א ת        | J U     | ב       |
| Charles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |        |            | NA         | U          |            | ū            | n v        | D (     | ם       |
| (PB)         NA         U         NA         U         1.51         U         1.51         U         1.51         NA         NA         NA         NA         1.51         U         1.51         NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |        |            | NA         | U          |            | 331          | _          | ) U     | 30.9    |
| tium         (MG)         NA         NA         NA         28400         29500         57500         77000         60000         NA           cse         (MN)         NA         NA         NA         NA         295         297         460         480         680         NA           m         (NI)         NA         NA         NA         U         U         17.61         20.7         16.51         NA           m         (SE)         NA         NA         NA         NA         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |        |            | NA         |            |            | 1.51         |            | 1.91    | ם       |
| cse         (MI)         NA         NA         NA         NA         460         480         481         NA           m         (NI)         NA         NA         NA         U         U         17.61         20.7         16.51         NA           m         (SE)         NA         NA         NA         U         U         U         U         L6.51         NA           n         (SE)         NA         NA         NA         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |        |            | NA         |            | 57500      | 00009        |            | 0 42300 | 1200000 |
| NA NA NA NA 1000 1763 1880 20.7 16.55 NA NA (N) NA NA NA 1000 1520 1880 2250 1820 NA NA NA NA NA NA NA NA NA NA NA NA NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |        |            | NA         | 29.5       | 460        | 481          |            | n<br>8  | Þ       |
| NA NA NA NA 10001 1520 1880 2250 18209 NA NA NA NA NA NA NA NA NA NA NA NA NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |        |            | NA         | n          | 17.6J      | 16.51        | 7.13       | U U     | ם       |
| NA NA NA 19500 27000 29700 33000 NA NA NA NA NA NA NA NA NA NA NA NA NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |        |            | NA         | 10001      | 1880/      | 18200        | _          | 10401   | 1800    |
| (NA) NA NA NA 19500 29700 29700 33000 31300 NA NA NA NA NA NA NA NA NA NA NA NA NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |        |            | ٧٧         | 43         | 7          | 4            | 7          | U 43    | ב       |
| n (TL) NA NA NA 11 U 1.005 U 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |        |            | NA         | 19500      | 29700      | 31300        |            | 0019    | 11000   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                        |        | NA NA      | NA         | 11         |            | 11           | A 13       | =       | ב       |
| Zinc (ZN) NA NA NA NA U U 131 144 148 NA U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |        |            |            | ין אן ע    |            | 148          | א ווא      | ט ו נ   | D       |

### Notes

- = within each column the left-hand value represents PRC data and the right-hand value represents the ADL data
  - field duplicate (duplicate analyses performed on PRC samples only)
    - analyte not detected
- estimated value
- analyte not analyzed
- PRC = PRC Environmental Management, Inc. PRC validated the results. Clayton Environmental Consultants and Skinner and Sherman Laboratories, Inc. analyzed the samples on behalf of USEPA.
  - ADL Arthur D. Little. ADL analyzed the samples on behalf of USATHAMA.

Samples were collected in April 1992

### COLLOCATED SAMPLE COLLECTION AT THE BADGER ARMY AMMUNITION PLANT QUALITY ASSURANCE/QUALITY CONTROL REPORT

#### INTRODUCTION

PRC Environmental Management, Inc. (PRC), has reviewed the analytical data for collocated ground-water samples collected by PRC at the Badger Army Ammunition Plant (BAAP). The U.S. Department of Defense (DOD) retained ABB Environmental Services, Inc., to collect and analyze ground-water samples from several locations during facility investigation activities conducted as part of DOD's U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) program.

PRC received collocated ground-water samples from nine on-site and four off-site ground-water monitoring wells. PRC submitted collocated ground-water samples to Clayton Environmental Consultants of Novi, Michigan, and Skinner and Sherman Laboratories, Inc., of Waltham, Massachusetts, for organic and inorganic analysis, respectively. Both laboratories participate in the U.S. Environmental Agency's (EPA) contract laboratory program (CLP) and utilized the CLP Statement of Work 3/90 (CLP SOW 3/90) to analyze samples. Organic analyses included testing for total volatile organic compounds (VOC) and total base/neutral/acid (BNA) extractable compounds from the target compound list (TCL). Inorganic analyses included testing for total metals and cyanide from the target analyte list (TAL). Analytical results for tentatively identified compounds (TIC) have not yet been received by PRC. These results will be submitted separately. This report summarizes analytical results received to date.

PRC reviewed quality control (QC) criteria for organic and inorganic data packages.

Organic QC criteria for the following were reviewed: (1) data completeness, (2) holding times, (3) gas chromatograph/mass spectrometry (GC/MS) tuning, (4) calibrations, (5) laboratory blanks, (6) surrogate recoveries, (7) matrix spike/matrix spike duplicates (MS/MSD), (8) internal standard performance, (9) instrument performance, (10) compound identification, and (11) compound quantitation. Inorganic QC criteria for the following were reviewed: (1) holding times, (2) calibrations, (3) laboratory blanks, (4) interference checks, (5) laboratory control samples, (6) sample duplicate precision, (7) MS recoveries, (8) inductively-coupled plasma (ICP) serial dilutions, and (9) sample quantitation.

Organic analytical data were reviewed in accordance with the EPA document entitled "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses," dated February 1, 1988. Inorganic analytical data were reviewed in accordance with the EPA document entitled "Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses," dated July 1988.

Collocated sample locations and analytical results for selected contaminants of concern are presented in Attachment A. Selected contaminants reflect compounds used to manufacture cannon, rocket, and small-arms ammunition propellants. Monitoring well sampling locations, corresponding PRC sample numbers, and analytical parameters are shown in Table 1 in Attachment B. Positive analytical results for organic and inorganic analyses are presented in Table 2 in Attachment B. PRC's organic and inorganic data validation forms are presented in Attachment C. Analytical data packages for organic and inorganic collocated ground-water sample analyses are presented in Attachment D. PRC's general and specific comments are presented below.

#### ORGANIC QA/QC DATA REVIEW

#### General Comments

Most QC criteria are within acceptable limits, and most results are valid and usable for all purposes.

Although the laboratory performed the analyses in accordance with the CLP SOW 3/90, the data package deliverables are not complete because of incomplete chain-of-custody documentation. Subsequently, PRC was unable to accurately assess collocated ground-water sample holding times. Also, quantitation reports were not submitted as part of the data package; therefore, PRC was unable to verify compound quantitations. The laboratory also failed to report TICs. TIC reporting is required by the EPA CLP SOW 3/90.

#### Specific Comments

1. Several compounds failed to meet the percent difference (%D) criterion for calibration verification. Detection limits reported for the following TCL compounds are considered estimated (J) for the affected samples.

| Compound               | Affected Collocated Ground-Water Sample Number                                                                                                                                           |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-nitroaniline         | BAS-GW-001, BAS-GW-002, BAS-GW-002D, BAS-GW-003, BAS-GW-003D, BAS-GW-004, BAS-GW-005, BAS-GW-006, BAS-GW-007, BAS-GW-008, BAS-GW-009, BAS-GW-011, BAS-GW-012, BAS-GW-013, and BAS-GW-014 |
| 4-nitroaniline         | BAS-GW-001, BAS-GW-004, BAS-GW-007, and BAS-GW-009                                                                                                                                       |
| 4-chloroaniline        | BAS-GW-002, BAS-GW-002D, BAS-GW-003, BAS-GW-003D, BAS GW-006, BAS-GW-008, BAS-GW-011, BAS-GW-012, and BAS-GW-014                                                                         |
| 3,3'-dichlorobenzidine | BAS-GW-005 and BAS-GW-013                                                                                                                                                                |

The quantitation limit reported may be biased because of the failure to meet %D calibration criteria.

4-nitrophenol

BAS-GW-013

2. Because of blank contamination, all sample results with concentrations less than the following action limits for the TCL compounds listed below have been qualified as undetected (U).

| Compound   | Action Limit                    |
|------------|---------------------------------|
| Acetone    | 200 micrograms per liter (µg/L) |
| 2-Butanone | 200 μg/L                        |

Blank contamination indicates that false positives may be reported. In addition to the compounds detected in the blanks, phthalates are a common laboratory contaminant. For several collocated ground-water samples, low levels of phthalates (less than 50  $\mu$ g/L) are reported. These detections may also be the result of laboratory contamination, although no phthalates were found in the blanks associated with these samples. Low levels of phthalates should be regarded as false positives unless historical data can verify their presence in ground water under the facility.

3. MS recoveries for collocated ground-water sample number BAS-GW-004 indicate three compounds whose percent recoveries are below the SOW-required control limits. The

- percent recovery of acenapthene is 44 percent, which is below the lower SOW-required control limit. SOW-required control limits are 46 to 118 percent.
- 4. Chain-of-custody documentation is insufficient and holding times cannot be accurately assessed. However, a review of quantitative sample results submitted by the laboratory indicates that the holding time for one sample may have been exceeded. Collocated ground-water sample number BAS-GW-005 was extracted 21 days after sample collection for BNA, not 7 days, as required by the CLP SOW 3/90.

#### INORGANIC QA/QC DATA REVIEW

#### General Comments

Most QC criteria are within acceptable limits, and most results are valid and usable for all purposes. The laboratory performed the analyses in accordance with the CLP SOW 3/90. All required data deliverables are in the data package delivered to PRC.

Data validation forms in Attachment C refer to the collocated ground-water samples without the prefix "BAS" to reflect the sample numbering system used by the laboratory.

#### Specific Comments

1. Because of blank contamination, the sample detection limits of the following inorganic compounds were raised to the listed action limits. Sample results with concentrations less than the action limits listed below have been qualified as "U."

| <u>Element</u> | Action Limit |
|----------------|--------------|
| Aluminum       | 122 µg/L     |
| Arsenic        | 7.5 µg/L     |
| Silver         | 20.5 μg/L    |
| Vanadium       | 12.0 µg/L    |

Blank contamination indicates that false positives may have been reported.

2. Because of percent recovery accuracy problems in the MS, the results for the analytes below are estimated as undetected (UJ) and usable for limited purposes only.

| Element  | Percent Recovery |
|----------|------------------|
| Selenium | 59.0             |
| Thallium | 50.8             |

Because the analytes shown have low percent recoveries, quantitation limits for these elements may have a low bias and false negatives may have been reported.

3. For sample number BAS-GW-001, selenium analysis results indicate the possibility of a matrix interference. Therefore, the sample's results are required to be quantitated by the method of standard additions (MSA). The MSA correlation coefficient is less than the acceptable coefficient 0.995, and the sample was reanalyzed. The second MSA coefficient was also less than 0.995. The result for selenium analysis is therefore considered estimated and usable for limited purposes only.



Because of percent recovery accuracy problems in the MS, the results for the analytes below are estimated as undetected (UJ) and usable for limited purposes only.

| Element  | Percent Recovery |
|----------|------------------|
| Selenium | 59.0             |
| Thallium | 50.8             |

Because the analytes shown have low percent recoveries, quantitation limits for these elements may have a low bias and false negatives may have been reported.

3. For sample number BAS-GW-001, selenium analysis results indicate the possibility of a matrix interference. Therefore, the sample's results are required to be quantitated by the method of standard additions (MSA). The MSA correlation coefficient is less than the acceptable coefficient 0.995, and the sample was reanalyzed. The second MSA coefficient was also less than 0.995. The result for selenium analysis is therefore considered estimated and usable for limited purposes only.

TABLE 1 MONITORING WELL SAMPLING LOCATIONS, SAMPLE NUMBERS, AND ANALYTICAL PARAMETERS

| Monitoring Well Sampling Location | Collocated Ground-Water<br>Sample Number                  | Analytical Parameters*        |
|-----------------------------------|-----------------------------------------------------------|-------------------------------|
| SPN-8904B                         | BAS-GW-001                                                | VOC, BNA, metals, and cyanide |
| SPN-8904C                         | BAS-GW-002                                                | VOC, BNA, metals, and cyanide |
| SPN-8904C                         | BAS-GW-002D                                               | VOC, BNA, metals, and cyanide |
| ELN-8202A                         | BAS-GW-003                                                | VOC, BNA, metals, and cyanide |
| ELN-8202A                         | BAS-GW-003D                                               | VOC, BNA, metals, and cyanide |
| SWN-9103C                         | BAS-GW-004 (Matrix spike/matrix spike duplicate - MS/MSD) | VOC and BNA                   |
| SWN-9103E                         | BAS-GW-005                                                | VOC, BNA, metals, and cyanide |
| SWN-9103D                         | BAS-GW-006                                                | VOC and BNA                   |
| SPN-8903C                         | BAS-GW-007                                                | VOC, BNA, metals, and cyanide |
| SPN-8903B                         | BAS-GW-008                                                | VOC, BNA, metals, and cyanide |
| ELN-8904A                         | BAS-GW-009                                                | VOC, BNA, metals, and cyanide |
| **                                | BAS-GW-010                                                | voc                           |
| S1153                             | BAS-GW-011                                                | VOC, BNA, metals, and cyanide |
| SPN-8902C                         | BAS-GW-012                                                | VOC, BNA, metals, and cyanide |
| SPN-8902B                         | BAS-GW-013                                                | VOC, BNA, metals, and cyanide |
| SWN-9103B                         | BAS-GW-014                                                | VOC and BNA                   |

Notes:

\*VOC = Volatile Organic Compounds
BNA = Total Base/Neutral/Acid Extractable Compounds

= Trip Blank

TABLE 2

SUMMARY OF POSITIVE ANALYTICAL RESULTS - ORGANIC AND INORGANIC ANALYSES OF COLLOCATED GROUND-WATER SAMPLES

| MONITORING WELL SAMPLING LOCATIONS (SAMPLING LOCATION) | SPN-<br>8904B | SPN.<br>8904C       | 8202A               | SWN-<br>9103C | SWN-<br>9103E | SWN-<br>9103D | SPN-<br>8903C | SPN:<br>8903B | ELN- | SIIS     | SPN-<br>8902C | SPN-<br>8902B | SWN.<br>9103B |
|--------------------------------------------------------|---------------|---------------------|---------------------|---------------|---------------|---------------|---------------|---------------|------|----------|---------------|---------------|---------------|
| Organic Results (micrograms per liter - #L/L)          |               |                     |                     |               |               |               |               |               |      |          |               |               |               |
| Chloromethane                                          | 5             | ٦                   | ۵                   | n             | 2             | =             | 1119          | =             | :    |          | ]:            |               |               |
|                                                        | :             |                     |                     |               |               | ·             | 3             | ì             | ,    | 3        | 2             | 3             | 3             |
| Caroon tetrachlonde                                    | 2             | 10, 10              | D                   | ם             | כ             | <b>&gt;</b>   | \$            | כ             | >    | <b>-</b> | 8             | 8             | _             |
| Carbon disulfide                                       | n             | U                   | ם                   | D             | a             | Σ             | ٦             | o             | 3    | ٩        | =             | =             | -             |
| Bis(2-ethylhexyl)phthalate                             | 02            | 20, 20 <sup>b</sup> | SO, 30 <sup>b</sup> | æ             | Э             | 9\$1          | 8             | 5             | 8    | \$       | 5             | ۶             | 9             |
|                                                        |               |                     |                     |               |               |               |               |               |      | 2        | 3             | 3             | 3             |

| SAMPLING                    | SPN-<br>8904B | SPN-<br>8904C | SPN-      | ELN.<br>8202A | ELN.<br>8202A | SWN-<br>9103C | SWN-<br>9103E | SWN.<br>9103D | SPN-<br>8903C | SPN-      | ELN-       | SHS3      | SPN-      | SPN       | SWN.     |
|-----------------------------|---------------|---------------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|-----------|------------|-----------|-----------|-----------|----------|
|                             |               |               |           |               |               |               |               |               |               |           |            |           | שאמנים    | 97049     | 91036    |
| Inorganic<br>Results (#g/L) |               |               |           |               |               |               |               |               |               |           |            |           |           |           |          |
| Aluminum                    | U             | ū             | n         | ם             | n             | Š             | ם             | Ž             | ٦             | 290.00    | 2          | =         | 1         | =         |          |
| Barium                      | 45.20J        | 78.50J        | 37.80J    | 113.001       | 118.003       | ¥             | 24.20         | Ž             | 33.601        | 74.00     | 116.001    | 2 2       | 2 2       |           | <b>S</b> |
| Cobrings                    | 4,400,00      | 00.70         | 300       |               |               |               |               |               |               |           |            | 20.703    | 30.00     | 33.803    | ź        |
| Carrient                    | 94,400,00     | 24,100.00     | 62,900.00 | 130,000.00    | 134,00.00     | ž             | 68,300.00     | ٧             | 77,700.00     | 73,200.00 | 179,000.00 | 87,300.00 | 78,300.00 | 77,100.00 | ź        |
| Chromium                    | ב             | Ŋ             | 3.50/     | n             | ב             | ž             | ם<br>ב        | ¥             | כ             | Ω         | Ω          | ם         | 9 201     | 101       | Š        |
| Cobalt                      | Ω             | U             | ם         | 4.603         | ם             | Ş             | ο             | ¥             | 5             | ב         | 5          | =         | =         | =         |          |
| Copper                      | 2.507         | n             | n         | ٦             | a             | ž             | ٦             | ž             | n             | 3         | 12         | ) =       | ) =       | , .       | 5        |
| lroa                        | n             | n             | n         | 314.00        | 331.00        | ž             | ٦             | ž             | ٦             | 2         | n          | , =       | 73.401    | 23.601    | ٤        |
| Lead                        | 1.300         | 1.20          | 1.603     | 1 503         | 1.502         | ž             | 150           | 2             | 185           | 1691      | 3 101      | 8         | 300       | 100       | <u> </u> |
|                             |               |               |           |               |               |               |               |               |               |           |            | 3         | (07:      | 3         | Ş        |

TABLE 2 (Continued)

| LOCATION   | SPN-<br>8904B | SPN-<br>8904C | SPN-<br>8904Cb | ELN-<br>8202A | ELN.<br>8202A | SWN-<br>9103C | SWN-       | SWN. | SPN-      | SPN-      | ELN       | \$1153    | SPN.      | SPN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SWN    |
|------------|---------------|---------------|----------------|---------------|---------------|---------------|------------|------|-----------|-----------|-----------|-----------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Marnesium  | 00 OUR. CF    | 44 700 An     | W 300 37       | 23 600 00     |               |               |            |      | 2CACB     | genze     | BXMA      |           | 2302C     | 8302B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 9103B  |
|            |               | A. 190.       | 43,700.00      | 37,200,00     | 60,000.00     | Ş             | 28,400.00  | ž    | 40,900.00 | 38,200.00 | 75,100,00 | 42,300,00 | 41 400 00 | 40 200 OA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | *2     |
| Manganese  | ם             | ם             | n              | 460.00        | 481.00        | ž             | 29.50      | ¥2   | =         | 39.5      |           |           |           | Para de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya d | 52     |
| Nicte      |               | =             | :              |               |               |               |            |      | ,         | N. 61     | 142.00    | >         | 1.00      | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ٧      |
|            | ,<br>J        | 2             |                | 17.600        | 16.50J        | ¥             | <b>ɔ</b>   | ≨    | Þ         | >         | 7.100     | ח         | 101.5     | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 42     |
| Potassium  | 937.00J       | 910.000       | 959.000        | 1,890.001     | 1,820.000     | ×             | 1,000,0001 | ž    | 100 000   | 916 001   | 10000     |           |           | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5      |
| Callantina |               |               |                |               |               |               |            |      | 200       | 710.000   | 1,530,000 | 1,040.000 | 901.003   | 28.0g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≨      |
| SCREMENT   |               | B             | 4.003          | 4.00.         | 4.00          | ž             | 4.007      | Ş    | 4.00      | 1007      | 1007      | 167       | 1007      | 1007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1      |
| Sodium     | 11,900.00     | 4,550.003     | 4,680.001      | 29,700.00     | 31 300 00     | ž             | 10 500 01  | 2    | 0000      |           |           | 9         |           | mo:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ٤      |
| Theftin    |               | 1             |                |               |               |               |            |      | 3         | *,000,000 | 22,400,00 | 6,100.00  | 6,250.00  | 7,120.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ž      |
|            | mo:           | 33            | 1.00           | 1.005         | <u>.</u>      | ž             | 1.00.1     | ź    | 1.00      | 1,00,1    | 1801      | 2         | 5         | 1001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1      |
| Zinc       | ם             | ם             | ח              | 131.00        | 148.00        | ≨             | 3          | ž    | =         | =         | =         | :         | :         | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ž.     |
|            |               |               |                |               |               |               |            |      | )         |           | 0         |           | ם         | <b>-</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ۲<br>۲ |

NO SE

U = not detected; J = estimated; NA = not analyzed Field duplicate